FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
ExxonMobil Oil Corporation

AUTHORIZING THE OPERATION OF
Beaumont Polyethylene Plant
High Pressure Unit
Plastics Material and Resin Manufacturing

LOCATED AT
Jefferson County, Texas
Latitude 30° 4' 4" Longitude 94° 13' 47"
Regulated Entity Number: RN100211903

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O1243 Issuance Date: December 16, 2016

For the Commission

Table of Contents

General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:

    A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.

    B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

    C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.

    D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

E. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.

F. Emission units subject to 40 CFR Part 63, Subpart FFFF as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.890 which incorporates the 40 CFR Part 63 Subpart by reference.

G. Emission units subject to 40 CFR Part 63, Subpart DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1130 which incorporates the 40 CFR Part 63 Subpart by reference.

H. Emission units subject to 40 CFR Part 63, Subpart A as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.100 which incorporates the 40 CFR Part 63 Subpart by reference.

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):

A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements

B. Title 30 TAC § 101.3 (relating to Circumvention)

C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ

D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ

E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)

F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)

G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)

H. Title 30 TAC § 101.221 (relating to Operational Requirements)

I. Title 30 TAC § 101.222 (relating to Demonstrations)

J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)

3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

(i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(1)(E)

(iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)

(iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

(1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.

(2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

(3) Records of all observations shall be maintained.

(4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

(c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)

(iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed

facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)

(iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

D. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).

E. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:

(i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)

(ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)

(iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)

F. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:

(i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)

(ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)

(iii) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)

(iv) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)

4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: "Storage of Volatile Organic Compounds," the permit holder shall comply with the requirements of 30 TAC § 115.112(a)(1).

5. For industrial wastewater specified in 30 TAC Chapter 115, Subchapter B, the permit holder shall comply with the following requirements:

A. Title 30 TAC § 115.145 (relating to Approved Test Methods)

B. Title 30 TAC § 115.146 (relating to Recordkeeping Requirements)

C. Title 30 TAC § 115.147(1) (relating to Exemptions)

D. Title 30 TAC § 115.148 (relating to Determination of Wastewater Characteristics)

6. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:

A. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities, constructed prior to November 15, 1992, with transfers to stationary storage tanks located at a facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:

(i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

(ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)

(iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

(iv) Title 30 TAC § 115.226(2)(B) (relating to Recordkeeping Requirements)

7. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)

B. Title 40 CFR § 60.8 (relating to Performance Tests)

C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)

D. Title 40 CFR § 60.12 (relating to Circumvention)

E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)

F. Title 40 CFR § 60.14 (relating to Modification)

G. Title 40 CFR § 60.15 (relating to Reconstruction)

H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

8. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

9. For miscellaneous chemical process facilities subject to maintenance wastewater requirements as specified in 40 CFR § 63.2485, Table 7, the permit holder shall comply with the requirements of 40 CFR § 63.105 (relating to Maintenance Wastewater Requirements) (Title 30 TAC Chapter 113, Subchapter C, § 113.890 incorporated by reference).

10. For site remediation projects subject to 40 CFR Part 63, Subpart GGGGG that will remove remediation material containing less than 1 megagram per year of the HAP listed in Table 1 to Subpart GGGGG, the permit holder shall comply with 40 CFR § 63.7881(c)(1) - (3) (Title 30 TAC Chapter 113, Subchapter C, § 113.1160 incorporated by reference).

11. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

12. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached “CAM Summary” upon issuance of the permit. In addition, the permit holder shall comply with the following:

A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).

B. The permit holder shall report, consistent with the averaging time identified in the “CAM Summary,” deviations as defined by the deviation limit in the “CAM Summary.” Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a

deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "CAM Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).

D. The permit holder shall operate the monitoring, identified in the attached "CAM Summary," in accordance with the provisions of 40 CFR § 64.7.

E. The permit holder shall comply with either of the following requirements for any capture system associated with the VOC control device subject to CAM. If the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective actions:

(i) Once a year the permit holder shall inspect the capture system in compliance with CAM for leaks in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppm above background or as defined by the underlying applicable requirement; or

(ii) Once a month, the permit holder shall conduct a visual, audible, and/or olfactory inspection of the capture system in compliance with CAM to detect leaking components.

F. The permit holder shall comply with either of the following requirements for any bypass of the control device subject to CAM. If the results of the following inspections or monitoring indicate bypass of the control device, the permit holder shall promptly take necessary corrective actions and report a deviation:

(i) Install a flow indicator that is capable of recording flow, at least once every fifteen minutes, immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or

(ii) Once a month, the permit holder shall inspect the valves checking the position of the valves and the condition of the car seals. Identify all times when the car seal has been broken and the valve position has been changed to allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere.

G. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.

13. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent

with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

14. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

    A. Are incorporated by reference into this permit as applicable requirements

    B. Shall be located with this operating permit

    C. Are not eligible for a permit shield

15. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.

16. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

17. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.

18. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:

    A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:

        (i) For sources in the Beaumont-Port Arthur Nonattainment area, 30 TAC § 117.9000

B. The permit holder shall comply with the Initial Control Plan unit listing requirement in 30 TAC § 117.150(c) and (c)(1).

19. Use of Emission Credits to comply with applicable requirements:

A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:

(i) Title 30 TAC Chapter 115

(ii) Title 30 TAC Chapter 117

(iii) Offsets for Title 30 TAC Chapter 116

B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:

(i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)-(d)

(ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1

(iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)-(d)

(iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122

20. Use of Discrete Emission Credits to comply with the applicable requirements:

A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:

(i) Title 30 TAC Chapter 115

(ii) Title 30 TAC Chapter 117

(iii) If applicable, offsets for Title 30 TAC Chapter 116

(iv) Temporarily exceed state NSR permit allowables

B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:

(i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)

(ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4

(iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

(iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

Risk Management Plan

21. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

Protection of Stratospheric Ozone

22. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:

    A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

    B. Any on site servicing, maintenance, and repair of fleet vehicle air conditioning using ozone-depleting refrigerants shall be conducted in accordance with 40 CFR Part 82, Subpart B. Permit holders shall ensure that repairs or refrigerant removal are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart B.

Permit Location

23. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

24. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
612-101116	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-151115	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-151116	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-C22457	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D4704	STORAGE TANKS/VESSELS	N/A	R5112-0132	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D646	STORAGE TANKS/VESSELS	N/A	R5112-0132	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D647-1	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D647-2	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D652	STORAGE TANKS/VESSELS	N/A	R5112-0097	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D652	STORAGE TANKS/VESSELS	N/A	63FFFF-2	40 CFR Part 63, Subpart FFFF	No changing attributes.
612-D670	STORAGE TANKS/VESSELS	N/A	R5112-0097	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F102	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F108	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F109	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
612-F670	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F676	STORAGE TANKS/VESSELS	N/A	R5112-0010	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F706	STORAGE TANKS/VESSELS	N/A	R5112-0010	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F710	STORAGE TANKS/VESSELS	N/A	R5112-0010	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F714	STORAGE TANKS/VESSELS	N/A	R5112-0097	30 TAC Chapter 115, Storage of VOCs	True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia, Tank Description = Tank using a vapor recovery system (VRS), Control Device Type = Flare
612-F714	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	True Vapor Pressure = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia, Tank Description = Tank does not require emission controls
612-F714	STORAGE TANKS/VESSELS	N/A	R5112-2	30 TAC Chapter 115, Storage of VOCs	True Vapor Pressure = True vapor pressure is less than 1.0 psia, Tank Description = Tank does not require emission controls
701	FLARES	N/A	R1111-001	30 TAC Chapter 111, Visible Emissions	No changing attributes.
701	FLARES	N/A	63A-001	40 CFR Part 63, Subpart A	No changing attributes.
701	FLARES	N/A	63FFFF-1	40 CFR Part 63, Subpart FFFF	No changing attributes.
701V	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-8	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
B500	PROCESS HEATERS/FURNACES	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
DEGR4	SOLVENT DEGREASING MACHINES	N/A	R5412-001	30 TAC Chapter 115, Degreasing Processes	No changing attributes.
DEGR6	SOLVENT DEGREASING MACHINES	N/A	R5412-003	30 TAC Chapter 115, Degreasing Processes	No changing attributes.
F-711	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	R5137-001	30 TAC Chapter 115, Water Separation	No changing attributes.
F-712	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	R5137-001	30 TAC Chapter 115, Water Separation	No changing attributes.
G-650	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
G-650	SRIC ENGINES	N/A	63ZZZZ-002	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-BOILER	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	B700, B700A, B704	63DDDDD-2	40 CFR Part 63, Subpart DDDDD	No changing attributes.
GRPDRUMVENT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	D-128, D-228, D-3328	63FFFF-G1CPV	40 CFR Part 63, Subpart FFFF	No changing attributes.
GRPENGINE	SRIC ENGINES	M-701, M-705, M-706	63ZZZZ-001	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRPEXLDPE	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	104, 204, 307, 604, 605, 606, 607, 608, 609, 615A, 615B, 615C, 618, 619, 620, 621, 627, 628	R5121-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPHPVENT1	EMISSION	101A, 101B, 101C,	R5121-4	30 TAC Chapter 115, Vent	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	POINTS/STATIONARY VENTS/PROCESS VENTS	101D, 101E, 101F, 101H, 102		Gas Controls	
GRPHPVENT2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	201A, 201B, 201C, 201D, 201E, 201F, 201H, 202	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPHPVENT3	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	300A, 300B, 300C, 300D, 300E, 300F, 300H, 301, AT360, AT361	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPHPVENT5	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	503A, 503B, 503C, 503D, 503E	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPLOAD	LOADING/UNLOADING OPERATIONS	F-706LOAD, F-714LOAD	R5211-001	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
GRPUNLOAD	LOADING/UNLOADING OPERATIONS	RAIL-LOAD2, RAIL-LOAD3, RAIL-LOAD4, TRK-LOAD1, TRK-LOAD2	R5211-002	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
HP-ENG-003	SRIC ENGINES	N/A	60IIII-2	40 CFR Part 60, Subpart IIII	No changing attributes.
HP-ENG-003	SRIC ENGINES	N/A	63ZZZZ-003	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
HP-ENG-004	SRIC ENGINES	N/A	60IIII-2	40 CFR Part 60, Subpart IIII	No changing attributes.
HP-ENG-004	SRIC ENGINES	N/A	63ZZZZ-003	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
HPFUG	FUGITIVE EMISSION UNITS	N/A	R5352-1	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
HPFUG	FUGITIVE EMISSION	N/A	63FFFF-3	40 CFR Part 63, Subpart	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	UNITS			FFFF	
M5PAINT	SURFACE COATING OPERATIONS	N/A	115E-01	30 TAC Chapter 115, Surface Coating Operations	No changing attributes.
RAIL-LOAD1	LOADING/UNLOADING OPERATIONS	N/A	R5211-003	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
612-101116	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-151115	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-151116	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-C22457	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-D4704	EU	R5112-0132	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-D646	EU	R5112-	VOC	30 TAC	§ 115.112(a)(1)	Tanks shall not store	§ 115.115(a)	§ 115.118(a)(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
		0132		Chapter 115, Storage of VOCs	§ 115.112(a)(3) § 60.18	VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	
612-D647-1	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-D647-2	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-D652	EU	R5112-0097	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-D652	EU	63FFFF-2	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2470(a)-Table4.1.b.iii § 63.2450(e) § 63.2450(e)(2) § 63.2470(a) § 63.2470(c)(2) § 63.2470(d) § 63.982(a) § 63.982(a)(1) § 63.982(b)	For each Group 1 storage tank for which the maximum true vapor pressure of total HAP at the storage temperature is < 76.6 kilopascals, you may reduce total organic HAP emissions by venting emissions through a closed vent system to a	§ 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) § 63.983(b)(1) [G]§ 63.983(b)(1)(i) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) § 63.983(b)(4) § 63.983(b)(4)(ii) [G]§ 63.983(c)(1)	§ 63.983(a)(3)(ii) § 63.983(b) § 63.983(b)(2)(ii) § 63.983(b)(3)(ii) [G]§ 63.983(d)(2) § 63.998(d)(1) § 63.998(d)(1)(i) § 63.998(d)(1)(ii) § 63.998(d)(1)(ii)(B) [G]§ 63.998(d)(1)(iii)	§ 63.2470(d) § 63.997(c)(3) § 63.999(c)(1) [G]§ 63.999(c)(2) [G]§ 63.999(c)(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3)	flare.	§ 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii)	§ 63.998(d)(1)(iv) [G]§ 63.998(d)(1) [G]§ 63.998(d)(2) § 63.998(d)(3)(i) § 63.998(d)(3)(ii)	
612-D670	EU	R5112-0097	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-F102	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-F108	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-F109	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
612-F670	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-F676	EU	R5112-0010	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-F706	EU	R5112-0010	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	[G]§ 115.117 ** See Periodic Monitoring Summary	§ 115.118(a)(5) § 115.118(a)(7)	None
612-F710	EU	R5112-0010	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-F714	EU	R5112-0097	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-F714	EU	R5112-	VOC	30 TAC	§ 115.111(a)(1)	Except as provided in §	[G]§ 115.117	§ 115.118(a)(1)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
		1		Chapter 115, Storage of VOCs		115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.		§ 115.118(a)(5) § 115.118(a)(7)	
612-F714	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
701	EU	R1111-001	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.11(a).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
701	CD	63A-001	112(B) HAPS	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(8)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5)	None	None
701	CD	63FFFF-1	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2450(e)(2) § 63.2450(k)(2) § 63.2470(d) § 63.982(b) § 63.987(a) § 63.987(b)(1) § 63.996(a) § 63.996(a)(2)	Except when complying with §63.2485, if you reduce organic HAP emissions by venting emissions through a closed-vent system to any combination of control devices or recovery	§ 63.987(b)(3) § 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(b)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) § 63.998(a)(1)(i) [G]§ 63.998(a)(1)(i)	§ 63.2450(f)(2)(ii) § 63.987(b)(1) § 63.997(c)(3) § 63.998(d)(2)(ii) § 63.999(a) [G]§ 63.999(a)(1) § 63.999(a)(2) § 63.999(a)(2)(i)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.997(e)(1) § 63.997(e)(3)	devices, you must meet the requirements of §63.982(b).	§ 63.997(c)(1) § 63.997(c)(1)(iii) § 63.997(c)(1)(v) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i)	§ 63.998(a)(1)(ii) § 63.998(a)(1)(iii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) § 63.998(b)(6)(i) § 63.998(b)(6)(i)(A) [G]§ 63.998(d)(2)	§ 63.999(a)(2)(ii) § 63.999(a)(2)(iii) § 63.999(a)(2)(iii)(A) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(3)
701V	EP	R5121-8	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(1) § 115.121(a)(1) § 115.122(a)(1)(B) § 60.18	Vent gas affected by §115.121(a)(1) must be controlled properly with a control efficiency > 90% or to a VOC concentration of no more than 20 ppmv (dry, corrected to 3% O2 for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None
B500	EU	63DDDDD-1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.1 § 63.7495(b) § 63.7495(h) § 63.7499(i) § 63.7500(a) § 63.7500(a)(3) § 63.7500(e) § 63.7505(a) § 63.7510(e) § 63.7515(d) § 63.7540(a) § 63.7540(a)(12) § 63.7540(a)(13) § 63.7565	A new or existing boiler or process heater with a continuous oxygen trim system that maintains an optimum air to fuel ratio, or a heat input capacity of less than or equal to 5 million Btu per hour in any of the following subcategories: unit designed to burn gas 1; unit designed to burn gas 2 (other); or unit designed to burn light liquid, or a limited use boiler or process heater. You must Conduct a tune-up of the boiler or process heater every 5 years as specified in §63.7540.	§ 63.7521(f) § 63.7521(f)(1) § 63.7521(f)(2) § 63.7521(g) § 63.7521(g)(1) § 63.7521(g)(2) § 63.7521(g)(2)(i) § 63.7521(g)(2)(ii) § 63.7521(g)(2)(iii) § 63.7521(g)(2)(iv) § 63.7521(g)(2)(v) § 63.7521(h) § 63.7521(i) § 63.7530(g) § 63.7540(a)(10)(i) § 63.7540(a)(10)(ii) § 63.7540(a)(10)(iii) § 63.7540(a)(10)(iv) § 63.7540(a)(10)(v) § 63.7540(c)	§ 63.7530(g) [G]§ 63.7540(a)(10)(vi) § 63.7555(a) § 63.7555(a)(1) [G]§ 63.7560	§ 63.7495(d) § 63.7530(e) § 63.7530(g) [G]§ 63.7540(a)(10)(vi) § 63.7545(a) § 63.7545(b) § 63.7545(e) § 63.7545(e)(1) § 63.7545(e)(8) § 63.7545(e)(8)(i) § 63.7545(e)(8)(ii) § 63.7550(a) [G]§ 63.7550(b) § 63.7550(c) § 63.7550(c)(1) § 63.7550(c)(5)(i) § 63.7550(c)(5)(ii) § 63.7550(c)(5)(iii) § 63.7550(c)(5)(iv) § 63.7550(c)(5)(xiv)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 63.7540(c)(4)		§ 63.7550(c)(5)(xvii) § 63.7550(h) § 63.7550(h)(3)
DEGR4	EU	R5412-001	VOC	30 TAC Chapter 115, Degreasing Processes	§ 115.412(1) § 115.411(1) [G]§ 115.411(2) [G]§ 115.412(1)(A) § 115.412(1)(C) [G]§ 115.412(1)(F)	Cold solvent cleaning. No person shall own or operate a system utilizing a VOC for the cold solvent cleaning of objects without the controls listed in §115.412(1)(A)-(F).	[G]§ 115.415(1) § 115.415(3) ** See Periodic Monitoring Summary	None	None
DEGR6	EU	R5412-003	VOC	30 TAC Chapter 115, Degreasing Processes	§ 115.412(1) § 115.411(1) [G]§ 115.411(2) [G]§ 115.412(1)(A) § 115.412(1)(C) § 115.412(1)(D) [G]§ 115.412(1)(F)	Cold solvent cleaning. No person shall own or operate a system utilizing a VOC for the cold solvent cleaning of objects without the controls listed in §115.412(1)(A)-(F).	[G]§ 115.415(1) § 115.415(3) ** See Periodic Monitoring Summary	None	None
F-711	EU	R5137-001	VOC	30 TAC Chapter 115, Water Separation	§ 115.137(a)(2) [G]§ 115.132(a)(4)	Any single or multiple compartment VOC water separator which separates materials having a true vapor pressure of VOC < .5 psia obtained from any equipment is exempt from §115.132(a).	[G]§ 115.135(a) § 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	§ 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	None
F-712	EU	R5137-001	VOC	30 TAC Chapter 115, Water Separation	§ 115.137(a)(2) [G]§ 115.132(a)(4)	Any single or multiple compartment VOC water separator which separates materials having a true vapor pressure of VOC < .5 psia obtained from any equipment is exempt from §115.132(a).	[G]§ 115.135(a) § 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	§ 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
G-650	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 8 KW and less than 19 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 6.6 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
G-650	EU	60IIII-1	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power less than 19 KW and a displacement of less than 10 liters per cylinder and is a 2008 model year or later must comply with an NMHC+NOx emission limit of 7.5 g/KW-hr, as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
G-650	EU	60IIII-1	PM (Opacity)	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.105(b)(1) § 1039.105(b)(2) § 1039.105(b)(3) § 60.4201(a) § 60.4206 § 60.4207(b)	Owners and operators of non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder and is not a constant-speed engine and is a 2007	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 60.4211(a) § 60.4211(c) § 60.4218	model year and later must comply with the following opacity emission limits: 20% during the acceleration mode, 15% during the lugging mode, and 50% during the peaks in either the acceleration or lugging modes as stated in 40 CFR 60.4201(a)-(c) and 40 CFR 89.113(a)(1)-(3) and 40 CFR 1039.105(b)(1)-(3).			
G-650	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power less than 19 KW and a displacement of less than 10 liters per cylinder and is a 2008 model year and later must comply with a PM emission limit of 0.40 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
G-650	EU	63ZZZZ-002	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c) § 63.6590(c)(7)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
GRP-BOILER	EU	63DDDDD-2	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.1 § 63.7495(b) § 63.7495(h) § 63.7499(l) § 63.7500(a) § 63.7500(a)(3) § 63.7500(e) § 63.7505(a) § 63.7510(e) § 63.7515(d) § 63.7540(a) § 63.7540(a)(12) § 63.7540(a)(13) § 63.7565	A new or existing boiler or process heater with a continuous oxygen trim system that maintains an optimum air to fuel ratio, or a heat input capacity of less than or equal to 5 million Btu per hour in any of the following subcategories: unit designed to burn gas 1; unit designed to burn gas 2 (other); or unit designed to burn light liquid, or a limited use boiler or process heater. You must Conduct a tune-up of the boiler or process heater every 5 years as specified in §63.7540.	§ 63.7521(f) § 63.7521(f)(1) § 63.7521(f)(2) § 63.7521(g) § 63.7521(g)(1) § 63.7521(g)(2) § 63.7521(g)(2)(i) § 63.7521(g)(2)(ii) § 63.7521(g)(2)(iii) § 63.7521(g)(2)(iv) § 63.7521(g)(2)(v) § 63.7521(h) § 63.7521(i) § 63.7530(g) § 63.7540(a)(10)(i) § 63.7540(a)(10)(ii) § 63.7540(a)(10)(iii) § 63.7540(a)(10)(iv) § 63.7540(a)(10)(v) § 63.7540(c) § 63.7540(c)(4)	§ 63.7530(g) [G]§ 63.7540(a)(10)(vi) § 63.7555(a) § 63.7555(a)(1) [G]§ 63.7560	§ 63.7495(d) § 63.7530(e) § 63.7530(g) [G]§ 63.7540(a)(10)(vi) § 63.7545(a) § 63.7545(b) § 63.7545(e) § 63.7545(e)(1) § 63.7545(e)(8) § 63.7545(e)(8)(i) § 63.7545(e)(8)(ii) § 63.7550(a) [G]§ 63.7550(b) § 63.7550(c) § 63.7550(c)(1) § 63.7550(c)(5)(i) § 63.7550(c)(5)(ii) § 63.7550(c)(5)(iii) § 63.7550(c)(5)(iv) § 63.7550(c)(5)(xiv) § 63.7550(c)(5)(xvii) § 63.7550(h) § 63.7550(h)(3)
GRPDRUMVENT	EP	63FFFF-G1CPV	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.2450(e)(2) § 63.2455(a) § 63.2455(b) § 63.2535(h)	For each Group 1continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through	§ 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) § 63.983(b)(1) [G]§ 63.983(b)(1)(i) [G]§ 63.983(b)(2)	§ 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.998(d)(1) § 63.998(d)(1)(i) § 63.998(d)(1)(ii)	§ 63.997(c)(3) § 63.999(c) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3)	a closed vent system to a flare.	[G]§ 63.983(b)(3) § 63.983(b)(4) § 63.983(b)(4)(ii) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii)	§ 63.998(d)(1)(ii)(B) [G]§ 63.998(d)(1)(iii) § 63.998(d)(1)(iv) [G]§ 63.998(d)(2) § 63.998(d)(3)(i) § 63.998(d)(3)(ii)	
GRPENGINE	EU	63ZZZZ-001	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(e)(2) § 63.6625(h) § 63.6625(i) § 63.6640(f) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3) § 63.6665	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6655(f)(1) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6645(a) § 63.6645(a)(1) § 63.6645(a)(5) § 63.6650(f)
GRPEXLDPE	EP	R5121-3	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(1) [G]§ 115.122(a)(4)	A vent gas stream from a LDPE plant is exempt from §115.121(a)(1) if less than or equal to 1.1 pounds of ethylene per 1,000 pounds (1.1 kg/1000 kg) of product are emitted from all the specified vent gas streams.	[G]§ 115.125 § 115.126(2) § 115.126(3)(A)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(A)	None
GRPHPVENT1	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).			
GRPHPVENT2	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPHPVENT3	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPHPVENT5	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPLOAD	EU	R5211-001	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(1) § 115.212(a)(1)(A) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§	At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors of VOC with a true vapor pressure of 0.5 psia or	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215	§ 115.216 § 115.216(1) § 115.216(1)(B) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					115.212(a)(3)(C) § 115.212(a)(3)(E) § 115.214(a)(1)(B) § 115.214(a)(1)(C) § 60.18	greater, must be controlled by one of the following methods.	§ 115.215(1) § 115.215(10) [G]§ 115.215(2) [G]§ 115.215(3) § 115.215(4) § 115.215(9) § 115.216(1) § 115.216(1)(B)	§ 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	
GRPUNLOAD	EU	R5211-002	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(3) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.214(a)(1)(B) § 115.214(a)(1)(C)	All land-based VOC transfer to or from transport vessels shall be conducted in the manner specified for leak-free operations.	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii)	§ 115.216 § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(iii)	None
HP-ENG-003	EU	60IIII-2	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
HP-ENG-003	EU	60IIII-2	NO_X	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a)	Owners and operators of non-emergency stationary CI ICE with a maximum	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	engine power greater than or equal to 56 KW but less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2014 model year and later must comply with a NOx emission limit of 0.40 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.			
HP-ENG-003	EU	60IIII-2	Nonmethane Hydrocarbons	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 56 KW but less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2014 model year and later must comply with an NMHC emission limit of 0.19 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
HP-ENG-003	EU	60IIII-2	PM	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2011 model year and later must	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						comply with a PM emission limit of 0.02 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.			
HP-ENG-003	EU	63ZZZZ-003	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c) § 63.6590(c)(7)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
HP-ENG-004	EU	60IIII-2	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr as stated in 40	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.			
HP-ENG-004	EU	60IIII-2	NO_X	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 56 KW but less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2014 model year and later must comply with a NOx emission limit of 0.40 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
HP-ENG-004	EU	60IIII-2	Nonmethane Hydrocarbons	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 56 KW but less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2014 model year and later must comply with an NMHC emission limit of 0.19 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
HP-ENG-004	EU	60IIII-2	PM	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a)	Owners and operators of non-emergency stationary CI ICE with a maximum	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	engine power greater than or equal to 130 KW and less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2011 model year and later must comply with a PM emission limit of 0.02 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.			
HP-ENG-004	EU	63ZZZZ-003	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c) § 63.6590(c)(7)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process,	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.			
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery &	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Petrochemicals		true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.			
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains contacting an affected VOC wastewater stream with a VOC TVP less than or equal to 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(1)(A) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) § 115.356(2) § 115.356(2)(A) § 115.356(2)(B) [G]§ 115.356(2)(E) § 115.356(2)(F) [G]§ 115.356(3) § 115.356(5)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains contacting an affected VOC wastewater stream with a VOC TVP greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a	[G]§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.			
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves contacting a process fluid less than or equal to 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) § 115.356(2) § 115.356(2)(A) § 115.356(2)(B) § 115.356(2)(C) [G]§ 115.356(2)(E) § 115.356(2)(F) [G]§ 115.356(3) § 115.356(5)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves contacting a process fluid greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(10) § 115.354(2) § 115.354(2)(D) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115,	§ 115.352(1)(A) § 115.352(1)	No open-ended valves or lines contacting a process	§ 115.354(1) § 115.354(1)(A)	§ 115.352(7) § 115.356	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Pet. Refinery & Petrochemicals	§ 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	fluid less than or equal to 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1)(B) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	[G]§ 115.356(1) § 115.356(2) § 115.356(2)(A) § 115.356(2)(B) § 115.356(2)(C) [G]§ 115.356(2)(E) § 115.356(2)(F) [G]§ 115.356(3) § 115.356(5)	
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines contacting a process fluid greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(1)(A) § 115.354(1)(B) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	[G]§ 115.354(7)
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1)	No valves contacting a process fluid less than or equal to 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane,	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(2) § 115.354(2)(C) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.357(8) § 115.357(9)	or the dripping or exuding of process fluid based on sight, smell, or sound.			
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves contacting a process fluid greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(10) § 115.354(2) § 115.354(2)(C) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	[G]§ 115.354(7)
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors contacting a process fluid less than or equal to 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5)	No flanges or other connectors contacting a process fluid greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(10) § 115.354(11) § 115.354(3)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.356(5)	
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators contacting a process fluid greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals equipped with a shaft sealing system shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) § 115.356(2) § 115.356(2)(A) § 115.356(2)(B) [G]§ 115.356(3) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals contacting a process fluid greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(10) § 115.354(2) § 115.354(2)(A) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals equipped with a shaft sealing system shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) § 115.356(2) § 115.356(2)(A) § 115.356(2)(B) [G]§ 115.356(2)(E) § 115.356(2)(F) [G]§ 115.356(3) § 115.356(5)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3)	No pump seals contacting a process fluid less than or equal to 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(2) § 115.354(2)(B) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) § 115.356(2) § 115.356(2)(A) § 115.356(2)(B) [G]§ 115.356(2)(E) § 115.356(2)(F) [G]§ 115.356(3)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.357(1)	§ 115.356(5)	
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals contacting a process fluid greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(10) § 115.354(2) § 115.354(2)(B) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	None
HPFUG	EU	63FFFF-3	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a)-Table 6.1.a § 63.1022(b)(1) § 63.1022(c) § 63.1022(c)(1) § 63.1022(d)(1) § 63.1024(e)	Comply with the requirements of Subpart UU of this Part 63 except as specified in §63.2480(b) and (d): §63.1027, connectors in gas and vapor service and in light liquid service standards (except connectors at existing sources electing to comply with §63.1029). §63.1027(a)-(e)	§ 63.1022(c)(4)(i) § 63.1023(a)(1)(iii) § 63.1024(c)(1) [G]§ 63.1024(c)(3) § 63.1025(b)(3)(i) § 63.1027(a) § 63.1027(b) § 63.1027(b)(1) § 63.1027(b)(2) § 63.1027(b)(3) § 63.1027(b)(3)(i) § 63.1027(b)(3)(iv) § 63.1027(c) § 63.1027(d) [G]§ 63.1027(e)	§ 63.1022(c)(3) § 63.1022(c)(4) § 63.1022(d)(2) § 63.1027(b)(3)(v) § 63.1027(e)(1) § 63.1038(c)(3)	§ 63.1039(b)(1) § 63.1039(b)(1)(iii)
HPFUG	EU	63FFFF-3	112(B) HAPS	40 CFR Part 63, Subpart	§ 63.2480(a)-Table 6.1.a	Comply with the requirements of Subpart	§ 63.1022(c)(4) § 63.1022(c)(4)(i)	§ 63.1022(c)(3) § 63.1022(c)(4)	§ 63.1039(a) [G]§ 63.1039(a)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				FFFF	§ 63.1022(c) § 63.1022(c)(1) § 63.1022(c)(2) § 63.1022(c)(2)(i) § 63.1024(d) [G]§ 63.1024(d)(3) § 63.1024(d)(5) § 63.1025(a) § 63.1025(a)(1) [G]§ 63.1025(c)	UU of this Part 63 except as specified in §63.2480(b) and (d): §63.1025, Valves in gas and vapor service and in light liquid service standards. §63.1025(a)-(e)	§ 63.1022(c)(4)(ii) § 63.1023(a)(1) § 63.1025(a)(2) § 63.1025(b) § 63.1025(b)(1) § 63.1025(b)(2) § 63.1025(b)(3) § 63.1025(b)(3)(i) § 63.1025(b)(3)(ii) [G]§ 63.1025(d) § 63.1025(e) § 63.1025(e)(1) § 63.1025(e)(2)	§ 63.1022(c)(4)(i) § 63.1022(c)(4)(ii) § 63.1025(b)(3)(vi) § 63.1025(e) § 63.1025(e)(1) § 63.1025(e)(2) § 63.1038(c) § 63.1038(c)(1) § 63.1038(c)(1)(i)	§ 63.1039(b)(1) § 63.1039(b)(1)(i) § 63.1039(b)(5)
HPFUG	EU	63FFFF-3	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a)-Table 6.1.a § 63.1033(a) [G]§ 63.1033(b) § 63.1033(c) § 63.1033(d)	Comply with the requirements of Subpart UU of this Part 63 except as specified in §63.2480(b) and (d): §63.1033, Open-ended valves or lines standards. §63.1033(a)-(d)	None	None	None
HPFUG	EU	63FFFF-3	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a)-Table 6.1.a § 63.1032(a) § 63.1032(b) § 63.1032(c) § 63.1034(b) § 63.1034(b)(2) § 63.1034(b)(2)(iii)	Comply with the requirements of Subpart UU of this Part 63 except as specified in §63.2480(b) and (d): §63.1032(b), each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed vent system, except as provided in §§63.1021(b), 63.1036, 63.1037, or §63.1032(d). Gases displaced during filling of the sample container are not required to be	§ 63.1024(c)(2)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						collected or captured			
HPFUG	EU	63FFFF-3	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a)-Table 6.1.a [G]§ 63.1024(d)(4) § 63.1026(e)(5)	Comply with the requirements of Subpart UU of this Part 63 except as specified in §63.2480(b) and (d): §63.1026, Pumps in light liquid service standards. §63.1026(a)-(e)	§ 63.1023(a)(1)(ii) § 63.1023(a)(2) § 63.1023(a)(2)(i) § 63.1024(c)(2) § 63.1026(a) § 63.1026(b) § 63.1026(b)(1) § 63.1026(b)(2) § 63.1026(b)(2)(i) § 63.1026(b)(2)(iii) § 63.1026(b)(3) [G]§ 63.1026(b)(4) [G]§ 63.1026(c) § 63.1026(d) § 63.1026(e) [G]§ 63.1026(e)(1) [G]§ 63.1035	[G]§ 63.1035 § 63.1038(c)(2) [G]§ 63.1038(c)(7)	§ 63.1039(b)(1) § 63.1039(b)(1)(ii) § 63.1039(b)(6)
HPFUG	EU	63FFFF-3	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a)-Table 6.1.a	Comply with the requirements of Subpart UU of this Part 63 except as specified in §63.2480(b) and (d): §63.1028, agitators in gas and vapor service and in light liquid service standards. §63.1028(a)-(e)	§ 63.1023(a)(1)(iv) § 63.1023(a)(2) § 63.1023(a)(2)(iii) § 63.1024(c)(2), (d) § 63.1024(d) [G]§ 63.1024(d)(3) § 63.1028(a) [G]§ 63.1028(c) § 63.1028(d)	§ 63.1038(c)(4) § 63.1038(c)(4)(i)	§ 63.1039(b)(1) § 63.1039(b)(1)(iv)
HPFUG	EU	63FFFF-3	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a)-Table 6.1.a § 63.1030(a) § 63.1030(d) § 63.1030(e)	Comply with the requirements of Subpart UU of this Part 63 except as specified in §63.2480(b) and (d): §63.1030, pressure relief devices in gas and vapor service standards. §63.1030(a)-(e)	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
M5PAINT	PRO	115E-01	VOC	30 TAC Chapter 115, Surface Coating Operations	§ 115.427(3)(A) [G]§ 115.422(6) § 115.427(3)	Surface coating operations on a property that, when uncontrolled, will emit a combined weight of VOC of less than 3.0 pounds per hour and 15 pounds in any consecutive 24-hour period are exempt from §115.421 of this title and §115.423 of this title.	None	§ 115.426 § 115.426(4)	None
RAIL-LOAD1	EU	R5211-003	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(1) § 115.212(a)(1)(A) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.212(a)(3)(E) § 115.214(a)(1)(B) § 115.214(a)(1)(C) § 60.18	At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors of VOC with a true vapor pressure of 0.5 psia or greater, must be controlled by one of the following methods.	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) [G]§ 115.215(3) § 115.215(4) § 115.215(9) § 115.216(1) § 115.216(1)(B)	§ 115.216 § 115.216(1) § 115.216(1)(B) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	None

Additional Monitoring Requirements

CAM Summary

Unit/Group/Process Information	
ID No.: 701V	
Control Device ID No.: 701	Control Device Type: Flare
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-8
Pollutant: VOC	Main Standard: § 115.122(a)(1)
Monitoring Information	
Indicator: Pilot Flame	
Minimum Frequency: Continuous	
Averaging Period: n/a	
Deviation Limit: Loss of all pilots on flare	
CAM Text: Measure and record the presence of the pilot flame. The presence of a pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. In the event the thermocouple or equivalent monitoring device is experiencing a system malfunction, a visual verification of the pilot flame may be performed to detect the presence of a flame. Lack of all flare pilot flames, as evidenced by all available monitoring data and/or visual observation shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 612-F706	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-0010
Pollutant: VOC	Main Standard: § 115.112(a)(1)
Monitoring Information	
Indicator: Structural Integrity of the Pipe	
Minimum Frequency: Emptied and degassed	
Averaging Period: n/a	
Deviation Limit: Must repair fill pipe prior to any filling operation	
Periodic Monitoring Text: Inspect to determine the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed. If the structural integrity of the fill pipe is in question, repairs shall be made before the storage vessel is refilled. It shall be considered and reported as a deviation if the repairs are not completed prior to refilling the storage vessel.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 612-F706	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-0010
Pollutant: VOC	Main Standard: § 115.112(a)(1)
Monitoring Information	
Indicator: Liquid Level	
Minimum Frequency: At the end of each unloading operation	
Averaging Period: n/a	
Deviation Limit: Fill pipe must be submerged at all times	
Periodic Monitoring Text: Regardless of the location of the fill pipe, the fill pipe must be submerged at all times. Establish the volume of liquid at the depth of the highest point of the fill pipe. Record the volume of liquid loaded and unloaded so that the storage vessel liquid volume is known. It shall be considered and reported as a deviation anytime the liquid volume falls below the liquid volume at the fill pipe.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: DEGR4	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Degreasing Processes	SOP Index No.: R5412-001
Pollutant: VOC	Main Standard: § 115.412(1)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Monthly	
Averaging Period: n/a	
Deviation Limit: Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of §115.412(1)(A)-(F) shall be considered and reported as a deviation.	
Periodic Monitoring Text: Inspect equipment and record data monthly to ensure compliance with any applicable requirements in § 115.412(1)(A)-(F). Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of § 115.412(1)(A)-(F) shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: DEGR6	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Degreasing Processes	SOP Index No.: R5412-003
Pollutant: VOC	Main Standard: § 115.412(1)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Monthly	
Averaging Period: n/a	
Deviation Limit: Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of §115.412(1)(A)-(F) shall be considered and reported as a deviation.	
Periodic Monitoring Text: Inspect equipment and record data monthly to ensure compliance with any applicable requirements in § 115.412(1)(A)-(F). Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of § 115.412(1)(A)-(F) shall be considered and reported as a deviation.	

Permit Shield

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
502	N/A	30 TAC Chapter 115, Vent Gas Controls	Located in BPA, DFW, El Paso, or HGA; is a combustion unit exhaust stream from a unit which is not being used as a control device for any vent gas stream subject to this undesignated head and which originates from a non-combustion source
612-101116	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-151115	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-151116	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-C22457	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-D4704	N/A	40 CFR Part 60, Subpart Ka	Tank does not store petroleum liquid
612-D645	N/A	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 1000 gallons
612-D645	N/A	40 CFR Part 60, Subpart Ka	Tank capacity is less than 151,412 liters (40,000 gallons)
612-D646	N/A	40 CFR Part 60, Subpart K	Tank does not store petroleum liquid
612-D647-1	N/A	40 CFR Part 60, Subpart Ka	Tank capacity is less than 151,412 liters (40,000 gallons)
612-D647-2	N/A	40 CFR Part 60, Subpart Ka	Tank capacity is less than 151,412 liters (40,000 gallons)
612-D652	N/A	40 CFR Part 60, Subpart K	Tank does not store petroleum liquid and the storage capacity is less than 151,412 liters

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
			(40,000 gallons)
612-D670	N/A	40 CFR Part 60, Subpart K	Tank does not store petroleum liquid and the storage capacity is less than 151,412 liters (40,000 gallons)
612-D702	N/A	30 TAC Chapter 115, Storage of VOCs	Tank does not storage a VOC
612-D702	N/A	40 CFR Part 60, Subpart K	Tank does not store petroleum liquid and the storage capacity is less than 151,412 liters (40,000 gallons)
612-D703	N/A	30 TAC Chapter 115, Storage of VOCs	Tank does not store a VOC
612-D703	N/A	40 CFR Part 60, Subpart K	Tank does not store petroleum liquid and the storage capacity is less than 151,412 liters (40,000 gallons)
612-D716	N/A	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 1000 gallons
612-D716	N/A	40 CFR Part 60, Subpart K	Tank does not store petroleum liquid and the storage capacity is less than 151,412 liters (40,000 gallons)
612-D716A	N/A	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 1000 gallons
612-D716A	N/A	40 CFR Part 60, Subpart K	Tank does not store petroleum liquid and the storage capacity is less than 151,412 liters (40,000 gallons)
612-F102	N/A	40 CFR Part 60, Subpart K	Tank capacity is less than 151,412 liters (40,000 gallons)
612-F108	N/A	40 CFR Part 60, Subpart Ka	Tank capacity is less than 151,412 liters (40,000 gallons)

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
612-F109	N/A	40 CFR Part 60, Subpart Ka	Tank capacity is less than 151,412 liters (40,000 gallons)
612-F670	N/A	40 CFR Part 60, Subpart K	Tank capacity is less than 151,412 liters (40,000 gallons)
612-F676	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-F706	N/A	40 CFR Part 60, Subpart Ka	Tank capacity is less than 151,142 liters (40,000 gallons)
612-F710	N/A	40 CFR Part 60, Subpart Ka	Tank capacity is less than 151,142 liters (40,000 gallons)
612-F714	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-F723	N/A	30 TAC Chapter 115, Storage of VOCs	Tank does not store a VOC
612-F723	N/A	40 CFR Part 60, Subpart Kb	Tank does not store a VOL
612-F801	N/A	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 25,000 gallons and is located at a motor vehicle fuel dispensing facility
612-F801	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
701	N/A	40 CFR Part 60, Subpart A	Flare is not used to comply with any subpart under 40 CFR Part 60 or 61.
702	N/A	30 TAC Chapter 115, Vent Gas Controls	Located in BPA, DFW, El Paso, or HGA; is a combustion unit exhaust stream from a unit which is not being used as a control device for any vent gas stream subject to this

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
			undesignated head and which originates from a non-combustion source
703	N/A	30 TAC Chapter 115, Vent Gas Controls	Located in BPA, DFW, El Paso, or HGA; is a combustion unit exhaust stream from a unit which is not being used as a control device for any vent gas stream subject to this undesignated head and which originates from a non-combustion source
704	N/A	30 TAC Chapter 115, Vent Gas Controls	Located in BPA, DFW, El Paso, or HGA; is a combustion unit exhaust stream from a unit which is not being used as a control device for any vent gas stream subject to this undesignated head and which originates from a non-combustion source
DEGR5	N/A	30 TAC Chapter 115, Degreasing Processes	Remote reservoir cold cleaner uses a solvent with a true vapor pressure of < 0.6 psia at 100F with a drain area < 16 sq. inches and waste solvent is disposed of in enclosed containers
F700	N/A	40 CFR Part 63, Subpart Q	Has not been operated with chromium-based water treatment chemicals on or after 09/08/1994
G-650	N/A	30 TAC Chapter 117, Subchapter B	Stationary diesel engines are exempt from 30 TAC Chapter 117, Subchapter B, division 1 relating to Beaumont-Port Arthur Ozone Nonattainment Area Major Sources.
GRP-BOILER	B700, B700A, B704	30 TAC Chapter 112, Sulfur Compounds	Does not burn solid fuel

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-BOILER	B700, B700A, B704	40 CFR Part 60, Subpart D	Heat input for fossil-fuel fired steam generating unit is less than or equal to 250 MMBTU/hr (73 MW)
GRP-BOILER	B700, B700A, B704	40 CFR Part 60, Subpart Db	Unit was constructed, modified, or reconstructed before 06/19/1984
GRP-BOILER	B700, B700A, B704	40 CFR Part 60, Subpart Dc	Unit was constructed, modified, or reconstructed before 06/09/1989
GRPENGINE	M-701, M-705, M-706	30 TAC Chapter 117, Subchapter B	Stationary diesel engines are exempt from 30 TAC Chapter 117 Subchapter B, Division 1 relating to Beaumont-Port Arthur Ozone Nonattainment Area Major Sources
GRPENGINE	M-701, M-705, M-706	40 CFR Part 60, Subpart IIII	Stationary CI ICE constructed prior to July 11, 2005.
GRPHPTANK1	612-143515, 612-151108, 612-151109, 612-23481, 612-C20542, 612-C22349, 612-F726, 612-F802, 612-F808, 612-PK001, 612-TS1316	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 1000 gallons
GRPHPTANK1	612-143515, 612-151108, 612-151109, 612-23481, 612-C20542, 612-C22349, 612-F726, 612-F802, 612-F808, 612-PK001, 612-TS1316	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
HPFUG	N/A	40 CFR Part 60, Subpart VV	Facility does not make a chemical that meets the definition of a SOCMI plant
HPFUG	N/A	40 CFR Part 61, Subpart J	This unit does not have equipment intended

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
			for operation in benzene service
HPFUG	N/A	40 CFR Part 61, Subpart V	This unit does not have equipment intended for operation in VHAP service
HPFUG	N/A	40 CFR Part 63, Subpart H	Components are not subject to a MACT provision that specifically references this subpart
M2CAN	N/A	30 TAC Chapter 115, Surface Coating Operations	Aerosol Coatings (Spray Paint) is exempt from the requirements of 30 TAC Chapter 115, Subchapter E, Division 2 per 115.427(6).
PROHPMR	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPFL1	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPFL2	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPFL3	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPRL1	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPRL2	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPRL3	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPSL1	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
PROHPPSL2	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPSL3	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPRMP	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987

New Source Review Authorization References

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX1464	Issuance Date: 04/20/2016
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 6860	Issuance Date: 04/20/2016
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.261	Version No./Date: 12/24/1998
Number: 106.261	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.433	Version No./Date: 09/04/2000
Number: 106.451	Version No./Date: 12/24/1998
Number: 106.452	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 03/14/1997
Number: 106.472	Version No./Date: 12/24/1998
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001
Number: 106.532	Version No./Date: 09/04/2000
Number: 5	Version No./Date: 05/04/1994
Number: 8	Version No./Date: 01/08/1980
Number: 15	Version No./Date: 09/17/1973
Number: 49	Version No./Date: 03/15/1985
Number: 51	Version No./Date: 11/05/1986
Number: 51	Version No./Date: 08/30/1988
Number: 51	Version No./Date: 07/20/1992
Number: 51	Version No./Date: 05/04/1994
Number: 57	Version No./Date: 01/08/1980
Number: 83	Version No./Date: 03/15/1985
Number: 83	Version No./Date: 11/05/1986
Number: 106	Version No./Date: 06/07/1996

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
101A	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
101B	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
101C	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
101D	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
101E	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
101F	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
101H	PRIMARY COMPRESSOR VENT	106.261/11/01/2003
102	HYPER COMPRESSOR VENT	6860, PSDTX1464
104	SPIN DRYER	6860, PSDTX1464
201A	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
201B	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
201C	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
201D	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
201E	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
201F	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
201H	PRIMARY COMPRESSOR VENT	106.261/11/01/2003
202	HYPER COMPRESSOR VENT	6860, PSDTX1464
204	SPIN DRYER	6860, PSDTX1464
300A	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
300B	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
300C	PRIMARY COMPRESSOR VENT	6860, PSDTX1464

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
300D	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
300E	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
300F	PRIMARY COMPRESSOR VENT	6860, PSDTX1464
300H	PRIMARY COMPRESSOR VENT	106.261/11/01/2003
301	HYPER COMPRESSOR VENT	6860, PSDTX1464
307	SPIN DRYER	6860, PSDTX1464
502	PROCESS HEATER VENT	6860, PSDTX1464
503A	ANALYZER VENT	6860, PSDTX1464
503B	ANALYZER VENT	6860, PSDTX1464
503C	ANALYZER VENT	6860, PSDTX1464
503D	ANALYZER VENT	6860, PSDTX1464
503E	ANALYZER VENT	6860, PSDTX1464
604	BLENDING SILOS L1	6860, PSDTX1464
605	BLENDING SILOS L2	6860, PSDTX1464
606	LOADING ELUTRIATOR L1	6860, PSDTX1464
607	LOADING ELUTRIATOR L2	6860, PSDTX1464
608	LOADING SCALPERATOR L1	6860, PSDTX1464
609	LOADING SCAPERATOR L2	6860, PSDTX1464
612-101116	TANK	106.472/09/04/2000
612-143515	CL-361 TANK	106.472/12/24/1998
612-151108	TANK	106.472/12/24/1998

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
612-151109	TANK	106.472/09/04/2000
612-151115	BOILERGUARD MB3A TANK	51/05/04/1994
612-151116	CAT FLOC DL TANK	51/05/04/1994
612-23481	CAT FLOC DL TANK	51/05/04/1994
612-C20542	TANK	106.472/09/04/2000
612-C22349	TANK	106.472/09/04/2000
612-C22457	TANK	106.472/09/04/2000
612-D4704	BUTENE TANK	83/03/15/1985
612-D645	PEROXIDE/OMS TANK	6860, PSDTX1464
612-D646	PROPYLENE TANK	83/03/15/1985
612-D647-1	PEROXIDE TANK	83/03/15/1985
612-D647-2	PEROXIDE TANK	83/03/15/1985
612-D652	PROPIONALDEHYDE TANK	6860, PSDTX1464
612-D670	METHANOL TANK	83/03/15/1985
612-D702	SULFURIC ACID TANK	15/09/17/1973
612-D703	CAUSTIC TANK	51/11/05/1986
612-D716A	DIESEL FUEL TANK	6860, PSDTX1464
612-D716	DIESEL FUEL TANK	6860, PSDTX1464
612-F102	COOLANT OIL TANK	6860, PSDTX1464
612-F108	WITCO OIL TANK	6860, PSDTX1464
612-F109	DTE OIL TANK	6860, PSDTX1464

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
612-F670	SOLVENT TANK	6860, PSDTX1464
612-F676	LUBE OIL	106.472/03/14/1997
612-F706	SLOP OIL TANK	6860, PSDTX1464
612-F710	OILY WATER TANK	51/11/05/1986
612-F714	WASTE FUEL TANK	6860, PSDTX1464
612-F723	SODIUM HYPOCHLORITE TANK	51/11/05/1986
612-F726	DIESEL	51/08/30/1988
612-F801	GASOLINE STORAGE TANK	6860, PSDTX1464
612-F802	DIESEL TANK	6860, PSDTX1464
612-F808	DIESEL TANK	51/08/30/1988
612-PK001	DIESEL	106.472/03/14/1997
612-TS1316	DIESEL	51/07/20/1992
615A	SAMPLER VENT CYCLONE	6860, PSDTX1464
615B	SAMPLER VENT CYCLONE	6860, PSDTX1464
615C	SAMPLER VENT CYCLONE	6860, PSDTX1464
618	BLENDING SILOS VENT L3	6860, PSDTX1464
619	SAMPLER CYCLONE VENT	6860, PSDTX1464
620	LOADING ELUTRIATOR CYCLONE VENT L3	6860, PSDTX1464
621	SCALPERATOR CYCLONE VENT	6860, PSDTX1464
627	BLENDING SILOS VENT L3	6860, PSDTX1464
628	BLENDING SILOS VENT L3	6860, PSDTX1464

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
701	HPPE FLARE	6860, PSDTX1464
701V	PROCESS VENT STREAM TO HPP FLARE	6860, PSDTX1464
702	BOILER/VENT GAS STACK	6860, PSDTX1464
703	BOILER/VENT GAS STACK	6860, PSDTX1464
704	BOILER/VENT GAS STACK	6860, PSDTX1464
AT360	ANALYZER VENT	106.261/11/01/2003
AT361	ANALYZER VENT	106.261/11/01/2003
B500	PROCESS HEATER 502	6860, PSDTX1464
B700A	BOILER	6860, PSDTX1464
B700	BOILER	6860, PSDTX1464
B704	BOILER	6860, PSDTX1464
D-128	BLOWDOWN DRUM VENT	6860, PSDTX1464
D-228	BLOWDOWN DRUM VENT	6860, PSDTX1464
D-3328	BLOWDOWN DRUM VENT	6860, PSDTX1464
DEGR4	CORE 1 DEGREASER (EPN: 985)	6860, PSDTX1464
DEGR5	CORE 2 DEGREASER (EPN: 986)	6860, PSDTX1464
DEGR6	HP PIPE SHOP DEGREASER (EPN: 987)	6860, PSDTX1464
F700	COOLING TOWER	6860, PSDTX1464
F-706LOAD	F-706 LOADING	6860, PSDTX1464
F-711	OIL AND WATER SEPARATOR	6860, PSDTX1464
F-712	OIL AND WATER SEPARATOR	6860, PSDTX1464

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
F-714LOAD	F-714 LOADING	6860, PSDTX1464
G-650	STORM SUMP PUMP DIESEL ENGINE	106.511/09/04/2000
HP-ENG-003	DIESEL AIR COMPRESSOR	106.512/06/13/2001
HP-ENG-004	DIESEL AIR COMPRESSOR	106.512/06/13/2001
HPFUG	HIGH PRESSURE FUGITIVES	6860, PSDTX1464
M2CAN	MAINT - AERSOL CANS	106/06/07/1996
M5PAINT	PAINTING	106.433/09/04/2000, 106.452/09/04/2000
M-701	EMERGENCY GENERATOR (EPN: 979)	5/05/04/1994
M-705	FIRE WATER PUMP DIESEL ENGINE (EPN: 977)	5/05/04/1994
M-706	FIRE WATER PUMP DIESEL ENGINE (EPN: 978)	5/05/04/1994
PROHPMR	HP MATERIAL RECOVERY	6860, PSDTX1464
PROHPPFL1	HP PRODUCT FINISHING L1	6860, PSDTX1464
PROHPPFL2	HP PRODUCT FINISHING L2	6860, PSDTX1464
PROHPPFL3	HP PRODUCT FINISHING L3	6860, PSDTX1464
PROHPPRL1	HP POLYMERIZATION REACTION L1	6860, PSDTX1464
PROHPPRL2	HP POLYMERIZATION REACTION L2	6860, PSDTX1464
PROHPPRL3	HP POLYMERIZATION REACTION L3	6860, PSDTX1464
PROHPPSL1	HP PRODUCT STORAGE L1	6860, PSDTX1464
PROHPPSL2	HP PRODUCT STORAGE L2	6860, PSDTX1464
PROHPPSL3	HP PRODUCT STORAGE L3	6860, PSDTX1464
PROHPRMP	HP RAW MATERIAL PREPARATION	6860, PSDTX1464

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
RAIL-LOAD1	BUTENE RAILCAR LOADING/UNLOADING	6860, PSDTX1464
RAIL-LOAD2	HEXENE RAILCAR UNLOADING	6860, PSDTX1464
RAIL-LOAD3	ISOPENTANE RAILCAR UNLOADING	6860, PSDTX1464
RAIL-LOAD4	PROPYLENE RAILCAR UNLOADING	6860, PSDTX1464
TRK-LOAD1	METHANOL TRUCK UNLOADING	6860, PSDTX1464
TRK-LOAD2	PROPIONALDEHYDE TRUCK UNLOADING	6860, PSDTX1464

Appendix A

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM ..... actual cubic feet per minute
AMOC ..... alternate means of control
ARP ..... Acid Rain Program
ASTM ..... American Society of Testing and Materials
B/PA ..... Beaumont/Port Arthur (nonattainment area)
CAM ..... Compliance Assurance Monitoring
CD ..... control device
CEMS ..... continuous emissions monitoring system
CFR ..... Code of Federal Regulations
COMS ..... continuous opacity monitoring system
CVS ..... closed vent system
D/FW ..... Dallas/Fort Worth (nonattainment area)
EP ..... emission point
EPA ..... U.S. Environmental Protection Agency
EU ..... emission unit
FCAA Amendments ..... Federal Clean Air Act Amendments
FOP ..... federal operating permit
gr/100 scf ..... grains per 100 standard cubic feet
HAP ..... hazardous air pollutant
H/G/B ..... Houston/Galveston/Brazoria (nonattainment area)
H_2S ..... hydrogen sulfide
ID No. ..... identification number
lb/hr ..... pound(s) per hour
MACT ..... Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr ..... Million British thermal units per hour
NA ..... nonattainment
N/A ..... not applicable
NADB ..... National Allowance Data Base
NESHAP ..... National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standard (40 CFR Part 60)
NSR ..... New Source Review
ORIS ..... Office of Regulatory Information Systems
Pb ..... lead
PBR ..... Permit By Rule
PEMS ..... predictive emissions monitoring system
PM ..... particulate matter
ppmv ..... parts per million by volume
PRO ..... process unit
PSD ..... prevention of significant deterioration
psia ..... pounds per square inch absolute
SIP ..... state implementation plan
SO_2 ..... sulfur dioxide
TCEQ ..... Texas Commission on Environmental Quality
TSP ..... total suspended particulate
TVP ..... true vapor pressure
U.S.C. ..... United States Code
VOC ..... volatile organic compound

Appendix B

Major NSR Summary Table

Permit Number: 6860 and PSDTX1464			Issuance Date: April 20, 2016				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY(4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
101A	Primary Compressor Vent	VOC	0.10	0.44	6, 19, 20, 21	6, 19, 20, 21	
101B	Primary Compressor Vent	VOC	0.10	0.44	6, 19, 20, 21	6, 19, 20, 21	
101C	Primary Compressor Vent	VOC	0.10	0.44	6, 19, 20, 21	6, 19, 20, 21	
101D	Primary Compressor Vent	VOC	0.10	0.44	6, 19, 20, 21	6, 19, 20, 21	
101E	Primary Compressor Vent	VOC	0.10	0.44	6, 19, 20, 21	6, 19, 20, 21	
101F	Primary Compressor Vent	VOC	0.10	0.44	6, 19, 20, 21	6, 19, 20, 21	
102	Hyper Compressor Vent	VOC	0.50	2.20	19, 20, 21	19, 20, 21	
104	Spin Dryer	VOC	(6)	(6)	19, 20, 21	19, 20, 21	
		$PM2.5/PM_{10}$	(7)	(7)	19	19	
201A	Primary Compressor Vent	VOC	0.10	0.44	17, 18, 19, 20, 21	17, 18, 19, 20, 21	
201B	Primary Compressor Vent	VOC	0.10	0.44	6, 19, 20, 21	6, 19, 20, 21	
201C	Primary Compressor Vent	VOC	0.10	0.44	6, 19, 20, 21	6, 19, 20, 21	
201D	Primary Compressor Vent	VOC	0.10	0.44	6, 19, 20, 21	6, 19, 20, 21	
201E	Primary Compressor Vent	VOC	0.10	0.44	6, 19, 20, 21	6, 19, 20, 21	

Major NSR Summary Table

Permit Number: 6860 and PSDTX1464			Issuance Date: April 20, 2016				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY(4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
201F	Primary Compressor Vent	VOC	0.10	0.44	6, 19, 20, 21	6, 19, 20, 21	
202	Hyper Compressor Vent	VOC	0.50	2.20	19, 20, 21	19, 20, 21	
204	Spin Dryer	VOC	(6)	(6)	19, 20, 21	19, 20, 21	
		$PM2.5/PM_{10}$	(7)	(7)	19	19	
300A	Primary Compressor Vent	VOC	0.11	0.47	6, 19, 20, 21	6, 19, 20, 21	
300B	Primary Compressor Vent	VOC	0.11	0.47	6, 19, 20, 21	6, 19, 20, 21	
300C	Primary Compressor Vent	VOC	0.11	0.47	6, 19, 20, 21	6, 19, 20, 21	
300D	Primary Compressor Vent	VOC	0.11	0.47	6, 19, 20, 21	6, 19, 20, 21	
300E	Primary Compressor Vent	VOC	0.11	0.47	6, 19, 20, 21	6, 19, 20, 21	
300F	Primary Compressor Vent	VOC	0.11	0.47	6, 19, 20, 21	6, 19, 20, 21	
301	Hyper Compressor Vent	VOC	0.50	2.20	19, 20, 21	19, 20, 21	
307	Spin Dryer	VOC	(6)	(6)	19, 20, 21	19, 20, 21	
		$PM2.5/PM_{10}$	0.34	1.03	19	19	
502	MSR Heater B-502	VOC	0.01	0.01	19, 20, 21	19, 20, 21	
		CO	0.02	0.09	19	19	

Major NSR Summary Table

Permit Number: 6860 and PSDTX1464			Issuance Date: April 20, 2016				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY(4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
		NO_x	0.02	0.11	19	19	
		SO_2	0.01	0.01	19	19	
		$PM2.5/PM_{10}$	0.01	0.01	19	19	
601	Dust Collector	$PM2.5/PM_{10}$	0.14	0.60	18, 19	18, 19	
602A, 603A	Hopper Vents (8)	$PM2.5/PM_{10}$	0.29	0.64	19	19	
602B	Hopper Vent	$PM2.5/PM_{10}$	0.08	0.34	19	19	
603B	Hopper Vent	$PM2.5/PM_{10}$	0.08	0.34	19	19	
604	Line 1 Blend Silo Dust Collector	VOC	(6)	(6)	19	19	
		$PM2.5/PM_{10}$	1.08	4.75	19	19	
605	Line 2 Blend Silo Dust Collector	VOC	(6)	(6)	19	19	
		$PM2.5/PM_{10}$	1.08	4.75	19	19	
606	Cyclone	VOC	(6)	(6)	19	19	
		$PM2.5/PM_{10}$	0.17	0.75	19	19	
607	Cyclone	VOC	(6)	(6)	19	19	
		$PM2.5/PM_{10}$	0.17	0.75	19	19	
608	Cyclone	VOC	(6)	(6)	19	19	
		$PM2.5/PM_{10}$	0.51	2.25	19	19	
609	Cyclone	VOC	(6)	(6)	19	19	
		$PM2.5/PM_{10}$	0.51	2.25	19	19	
612-D645	Slop Tank	VOC	0.05	0.01	19, 21, 23	19, 21, 23	
612-D716	Diesel Tank	VOC	1.10	0.01	19, 21, 23	19, 21, 23	
612-D716A	Diesel Tank	VOC	1.10	0.01	19, 21, 23	19, 21, 23	

Major NSR Summary Table

Permit Number: 6860 and PSDTX1464			Issuance Date: April 20, 2016				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY(4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
612-F102	Coolant Tank	VOC	0.03	0.01	19, 21, 23	19, 21, 23	
612-F108	Oil Tank	VOC	0.03	0.01	19, 21, 23	19, 21, 23	
612-F109	Oil Tank	VOC	0.03	0.01	19, 21, 23	19, 21, 23	
612-F670	OMS Tank	VOC	0.64	0.01	19, 21, 23	19, 21, 23	
612-F706	Oil Tank	VOC	15.00	3.03	19, 21, 23	19, 21, 23	
612-F801	Gasoline Tank	VOC	5.20	0.82	19, 21, 23	19, 21, 23	
612-F802	Diesel Tank	VOC	0.01	0.01	19, 21, 23	19, 21, 23	
615A	Sample Receiver	VOC	(6)	(6)	19	19	
		$PM2.5/PM_{10}$	0.03	0.12	19	19	
615B	Sample Receiver	VOC	(6)	(6)	19	19	
		$PM2.5/PM_{10}$	0.03	0.12	19	19	
615C	Sample Receiver	VOC	(6)	(6)	19	19	
		$PM2.5/PM_{10}$	0.03	0.12	19	19	
616A, 617A, 625A	Hopper Vent (9)	$PM2.5/PM_{10}$	1.00	3.50	19	19	
616B	Hopper Vent	$PM2.5/PM_{10}$	0.08	0.34	19	19	
617B	Hopper Vent	$PM2.5/PM_{10}$	0.08	0.34	19	19	
618	Transfer Cyclone	VOC	97.91	271.36	4, 5, 19, 20, 21	4, 5, 19, 20, 21	
		$PM2.5/PM_{10}$	2.73	11.98	19	19	
619	Sample Cyclone Vent	VOC	(6)	(6)	19	19	
		$PM2.5/PM_{10}$	0.04	0.18	19	19	
620	Flotriator Cyclone	VOC	(6)	(6)	19	19	
		$PM2.5/PM_{10}$	0.88	3.87	19	19	

Major NSR Summary Table

Permit Number: 6860 and PSDTX1464			Issuance Date: April 20, 2016				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY(4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
621	Scalperator Cyclone	VOC	(6)	(6)	19	19	
		$PM2.5/PM_{10}$	0.77	3.38	19	19	
625B	Line 3 Rerun Vacuum Hopper	$PM2.5/PM_{10}$	0.01	0.02	19	19	
626A and 626C	Line 3 Masterbatch Hopper (10)	$PM2.5/PM_{10}$	0.47	1.03	19	19	
626B	Line 3 Masterbatch Hopper	$PM2.5/PM_{10}$	0.01	0.02	19	19	
627	Line 3 Blend Silos	VOC	(6)	(6)	19	19	
		$PM2.5/PM_{10}$	0.44	0.23	19	19	
628	Line 3 Blend Silos	VOC	(6)	(6)	19	19	
		$PM2.5/PM_{10}$	0.44	0.23	19	19	
631	Lines 1, 2, and 3 Rerun Filter Receiver	$PM2.5/PM_{10}$	0.16	0.71	19	19	
632	MB and Rerun Cyclone Dust Collector	$PM2.5/PM_{10}$	0.23	1.02	19	19	
701	Flare	VOC	392.49	52.34	2, 9, 15, 19, 20, 21	2, 9, 15, 19, 20, 21	2
		CO	477.61	155.00	19	19	
		NO_x	114.44	26.40	19	19	
		SO_2	0.11	0.37	19	19	
702	Boiler B-701	VOC	0.71		19, 20, 21	19, 20, 21	
		CO	3.13		19	19	
		NO_x	3.73		19	19	

Major NSR Summary Table

Permit Number: 6860 and PSDTX1464			Issuance Date: April 20, 2016				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY(4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
		SO_2	0.02		19	19	
		PM2.5/PM_{10}	0.28		19	19	
703	Boiler B-701A	VOC	0.71		19, 20, 21	19, 20, 21	
		CO	3.13		19	19	
		NO_x	3.73		19	19	
		SO_2	0.02		19	19	
		PM2.5/PM_{10}	0.28		19	19	
704	Boiler B-701B	VOC	0.71		19, 20, 21	19, 20, 21	
		CO	3.13		19	19	
		NO_x	3.73		19	19	
		SO_2	0.02		19	19	
		PM2.5/PM_{10}	0.28		19	19	
702, 703, and 704	Boilers B-701, B-701A, and B-701B (11)	VOC		4.31	19, 20, 21	19, 20, 21	
		CO		30.84	19	19	
		NO_x		36.71	19	19	
		SO_2		0.22	19	19	
		PM2.5/PM_{10}		2.79	19	19	
714	Wastewater Area Fugitives (5)	VOC	0.01	0.01			
985, 986, 987, and 990	Degreasers (12)	VOC	0.84	0.80	19, 20, 21	19, 20, 21	

Major NSR Summary Table

Permit Number: 6860 and PSDTX1464			Issuance Date: April 20, 2016				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY(4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
HPFUGEM	High Pressure Unit Fugitives (5)	VOC	15.85	69.41	2, 13, 14, 19, 20, 21,28	2, 13, 14, 19, 20, 21, 28	2, 13
MSS	See Attachment C	VOC	279.34	4.97	19, 20, 21, 24, 25	19, 20, 21, 24, 25	
		CO	0.83	0.01	19	19	
		NO_x	0.98	0.01	19	19	
		SO_2	0.01	0.01	19	19	
		PM2.5/PM_{10}	0.19	0.50	19	19	

Footnotes:

(1) Emission point identification - either specific equipment designation or emission point number (EPN) from a plot plan.
(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
CO - carbon monoxide
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM_{10} - particulate matter equal to or less than 10 microns in diameter
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
(6) Total residual VOC emissions from EPNs 104, 204, 307, 604, 605, 606, 607, 608, 609, 615A, 615B, 615C, 618, 619, 620, 621, 627, and 628 are listed under EPN 618.
(7) Total spin dryer particulate emissions from EPNs 104, 204, and 307 are listed under EPN 307.
(8) Total emissions for EPNs 602A and 603A.
(9) Total emissions for EPNs 616A, 617A, and 625A.

(10) Total emissions for EPNs 626A and 626C.
(11) Total emissions for EPNs 702, 703, and 704.
(12) Total emissions for EPNs 985, 986, 987, and 990.

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
ExxonMobil Oil Corporation
Authorizing the Construction and Operation of
Beaumont Polyethylene Plant
Located at **Beaumont, Jefferson County, Texas**
Latitude 30° 3′ 36″ Longitude −94° 14′ 8″

Permits: 6860 and PSDTX1464
Amendment Date: April 20, 2016
Expiration Date: June 7, 2020

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)] [1]
2. **Voiding of Permit**. A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1)the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of $5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress**. Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification**. The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements**. If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling

facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates**. The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] [1]
9. **Maintenance of Emission Control**. The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules**. Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. [1]

[1] Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Special Conditions

Permit Numbers 6860 and PSDTX1464

Special Condition Nos. 3 through 18 apply to the normal operations of the sources covered under this permit. Special Condition Nos. 19 through 30 apply to the planned maintenance, startup, and shutdown activities authorized by this permit.

Emission Limitations

1. This permit authorizes emissions only from those points listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates" and the facilities covered by this permit are authorized to emit subject to the emission rate limits on that table and other operating requirements specified in the special conditions. **(6/10)**

Federal Applicability

2. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63:

   A. Subpart A, General Provisions.

   B. Subpart SS, National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process.

   C. Subpart FFFF, National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing.

Operational Limitations, Work Practices, and Plant Design

3. Opacity of emissions from all boilers and heaters shall not exceed 5 percent averaged over a six-minute period, except for those periods described in Title 30 Texas Administrative Code § 111.111(a)(1)(E) [30 TAC § 111.111(a)(1)(E)].

4. Monthly records of total production of polyethylene products from Reaction Lines 100, 200, and 300 shall be maintained showing the production per rolling 12-month period. For the purpose of assuring compliance with the volatile organic compounds (VOC) residual pellet emission rate shown at Emission Point No. (EPN) 618, the holder of this permit shall calculate the VOC residual pellet emissions for the month and the residual pellet emissions per rolling 12-month period. **(6/10)**

5. The following applies to commercial products as well as new products.

   A. The combined ethylene emissions to the atmosphere downstream of the extruder shall not exceed 1,100 pounds per million pounds of product produced for Production Lines 100 and 200.

B. The combined ethylene emissions to the atmosphere downstream of the extruder shall not exceed 750 pounds per million pounds of product produced for Production Line 300.

C. Vinyl acetate emissions from the pellets downstream of the extruder for Production Line 100 shall not exceed 500 pounds per million pounds of product produced.

D. Propylene emissions from the pellets downstream of the extruder in Reaction Line 100 shall not exceed 45 pounds per million pounds of product produced.

E. Propionaldehyde emissions from the pellets downstream of the extruder in Reaction Lines 100, 200, and 300 shall not exceed 30 pounds per million pounds of product produced.

The permit holder shall test samples of polyethylene for ethylene, vinyl acetate, propylene, and propionaldehyde using the vial headspace analysis method or the beverage can method every other week. Compliance with the emission limitations in Paragraphs A through E of this condition shall be based on the monthly average of sampling results. Samples for the test(s) shall be taken at the inlet to the spin dryer. Records of each test shall be kept. Production rates at the time of sample collection shall also be recorded. **(6/10)**

6. The Primary Compressor Vents identified as EPNs 101A, 101B, 101C, 101D, 101E, 101F, 201A, 201B, 201C, 201D, 201E, 201F, 300A, 300B, 300C, 300D, 300E, and 300F shall be monitored monthly with an approved gas analyzer and a calibrated flow measuring device. The emissions from EPNs 101A, 101B, 101C, 101D, 101E, 101F, 201A, 201B, 201C, 201D, 201E, and 201F shall not exceed 0.10 pound per hour (lb/hr) of VOC. The emissions from EPNs 300A, 300B, 300C, 300D, 300E, and 300F shall not exceed 0.11 lb/hr of VOC. **(5/02)**

7. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration of greater than 1 percent are not authorized by this permit unless authorized on the maximum allowable emission rates table. Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration greater than 1 weight percent are not consistent with good practice for minimizing emissions with the exception of those listed below.

A. Safety relief valves that discharge to the atmosphere only as a result of fire or failure of utilities;

B. The valves listed in Table 1; and

C. The Reactor Emergency Relief Valves. **(6/10)**

8. Working and breathing losses from the relief vents of Storage Tank Nos. D-652, D-670, D-4705, F-713, and F-714 shall be routed to the Flare (EPN 701). **(8/07)**

9. Flares shall be designed and operated in accordance with the following requirements:

A. The flare systems shall be designed such that the combined assist natural gas and waste stream to each flare meets the Title 40 Code of Federal Regulations § 60.18 (40

CFR § 60.18) specifications of minimum heating value and maximum tip velocity under normal, upset, and maintenance flow conditions.

The heating value and velocity requirements shall be satisfied during operations authorized by this permit. Flare testing per 40 CFR § 60.18(f) may be requested by the appropriate regional office to demonstrate compliance with these requirements.

B. The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.

C. The flare shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. This shall be ensured by the use of air assist to the flare.

D. The permit holder shall install a continuous flow monitor and analyzer that provide a record of the flow and net heating value of the vent stream to the flare. The flow monitor sensor and analyzer sample points shall be installed in the vent stream as near as possible to the flare inlet such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow and heating value shall be recorded each hour.

The monitors shall be calibrated on an annual basis to meet the following accuracy specifications: the flow monitor shall be ±5.0 percent or ±10 cfm (whichever is greater) over the velocity range 0.1 to 250 ft/sec and ±5.0 percent at velocity ranges greater than 250 ft/sec, temperature monitor shall be ±2.0 percent at absolute temperature, and pressure monitor shall be ±5.0 mm Hg. **(4/16)**

The calorimeter shall be calibrated, installed, operated, and maintained, in accordance with manufacturer recommendations, to continuously measure and record the net heating value of the gas sent to the flare, in British thermal units/standard cubic foot of the gas.

The monitors and analyzers shall operate as required by this section at least 95 percent of the time when the flare is operational, averaged over a rolling 12 month period. Flared gas net heating value and actual exit velocity determined in accordance with 40 CFR §60.18(f)(4) shall be recorded at least once every 15 minutes.

E. Installation of the online calorimeter shall be completed by October 31, 2012. **(6/10)**

10. The cooling tower shall be equipped with a Lower Explosive Limit (LEL) detector which alarms in the control room when the VOC level increases indicating a process leak into the cooling water system. Whenever the cooling tower LEL alarm is activated, action shall be taken as soon as possible to locate and contain the leak. Faulty equipment shall be repaired at the earliest opportunity, but no later than the next scheduled shutdown of the process unit in which the leak occurs. The cause of any alarm and all repairs shall be recorded.

11. Fuel for Heater B-502 (EPN 502) and supplemental fuel to the Flare (EPN 701) shall contain no more than 5 grains of total sulfur per 100 dry standard cubic feet. **(6/10)**

12. Fuel for Boilers B-701, B-701A, and B-701B (EPNs 702, 703, and 704) shall be either sweet natural gas containing no more than 5 grains of total sulfur per 100 dry standard cubic feet, or a blend of sweet natural gas and process gas generated by this plant. If blend gas is used, the overall blend gas stream shall contain no more than 5 grains of total sulfur per 100 dry standard cubic feet. **(6/10)**

Leak Detection and Repair Monitoring Programs

13. Piping, Valves, Connectors, Pumps, Agitators and Compressors - Intensive Directed Maintenance - 28MID **(5/11)**

    Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment:

    A. The requirements of paragraphs F and G shall not apply (1) where the volatile organic compounds (VOC) has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68°F or (2) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made available upon request.

       The exempted components may be identified by one or more of the following methods:

       (1) piping and instrumentation diagram (PID);

       (2) a written or electronic database or file;

       (3) color coding;

       (4) a form of weatherproof identification; or

       (5) designation of exempted process unit boundaries.

    B. Construction of new and reworked piping, valves, pump systems, agitators, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.

    C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.

    D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made available upon request. The difficult-to-

monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in Paragraph A above.

E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the removal of a component for repair or replacement results in an open-ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period;

(1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or

(2) the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once at the end of the 72 hour period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings 20 ppmv above background and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

F. Accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

A check of the reading of the pressure-sensing device to verify disc integrity shall be performed weekly and recorded in the unit log or equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph.

An approved gas analyzer shall conform to requirements listed in Method 21 of 40 CFR Part 60, Appendix A. The gas analyzer shall be calibrated with methane. In addition, the response factor of the instrument for a specific VOC of interest shall be determined and meet the requirements of Section 8 of Method 21. If a mixture of

VOCs are being monitored, the response factor shall be calculated for the average composition of the process fluid. A calculated average is not required when all of the compounds in the mixture have a response factor less than 10 using methane. If a response factor less than 10 cannot be achieved using methane, then the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

A directed maintenance program shall consist of the repair and maintenance of components assisted simultaneously by the use of an approved gas analyzer such that a minimum concentration of leaking VOC is obtained for each component being maintained. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. Replaced components shall be re-monitored within 15 days of being placed back into VOC service.

G. All new and replacement pumps, compressors, and agitators shall be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. These seal systems need not be monitored and may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

All other pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly.

H. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of

tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.

I. In lieu of the monitoring frequency specified in Paragraph F of this condition, valves in gas and light liquid service may be monitored on a semiannual basis if the percent of valves leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Valves in gas and light liquid service may be monitored on an annual basis if the percent of valves leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of valves leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.

J. The percent of valves leaking used in paragraph I shall be determined using the following formula:

(Vl + Vs) x 100/Vt = Vp

Where:

Vl = the number of valves found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.

Vs = the number of valves for which repair has been delayed and are listed on the facility shutdown log.

Vt = the total number of valves in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to-monitor valves.

Vp = the percentage of leaking valves for the monitoring period.

K. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95 percent of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.

L. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standard, or an applicable National Emission Standard for Hazardous Air Pollutants and does not constitute approval of alternative standards for these regulations.

14. In addition to the weekly physical inspection required by Paragraph E of Special Condition No. 13, all accessible connectors in gas\vapor and light liquid service shall be monitored quarterly with an approved gas analyzer in accordance with Paragraphs F thru J of Special Condition No. 13.

A. Connectors may be monitored on a semiannual basis if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Connectors may be monitored on an annual basis if the percent of connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of connectors leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.

B. The percent of connectors leaking used in paragraph A shall be determined using the following formula:

(Cl + Cs) x 100/Ct = Cp

Where:

Cl = the number of connectors found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.

Cs = the number of connectors for which repair has been delayed and are listed on the facility shutdown log.

Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to-monitor connectors.

Cp = the percentage of leaking connectors for the monitoring period. **(6/10)**

15. The following requirements apply to capture systems for the plant flare system.

A. Either conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or verify the capture system is leak-free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21 once a year. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.

B. The control device shall not have a bypass.

or

If there is a bypass for the control device, comply with either of the following requirements:

(1) Install a flow indicator that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or

(2) Once a month, inspect the valves, verifying the position of the valves and the condition of the car seals that prevent flow out the bypass.

These requirements do not apply to high point vent and low point drain valves.

C. If any of the above inspections is not satisfactory, the permit holder shall promptly take necessary corrective action. **(6/10)**

16. As an alternative to comparing the daily emission rate of the components on the delay of repair (DOR) list to the total emissions from the unit shutdown emissions per the requirements of Paragraph H of Special Condition No. 13, the cumulative hourly emission rate of all components on the DOR list may be compared to 10 percent of the fugitive emissions short term limit authorized in the maximum allowable emission rate table (MAERT) in order to determine if notification to the TCEQ Regional Director is required. **(6/10)**

17. Pressed and permanently formed metal to metal seals may be used as an alternative to welded or flanged connections on new and reworked piping. **(6/10)**

18. The following shall apply to the Dust Collector (EPN 601): **(5/11)**

A. Particulate matter grain loading shall not exceed 0.01 grain per dscf of air from any vent. There shall be no visible emissions exceeding 30 seconds in any six-minute period as determined using U.S. Environmental Protection Agency (EPA) Test Method 22.

B. The vents covered by this condition shall not operate unless control devices and associated equipment are maintained in good working order and operating. All vents covered by this condition will be inspected for visible emissions once per quarter. Records shall be maintained of all inspections and maintenance performed.

Maintenance, Startup, and Shutdown Operations

19. This permit authorizes the emissions from the facilities identified in Attachment D for the planned maintenance, startup, and shutdown (planned MSS) activities summarized in the MSS Activity Summary (Attachment C) attached to this permit.

Attachment A identifies the inherently low emitting MSS activities that may be performed at the plant. Emissions from activities identified in Attachment A shall be considered to be equal to the potential to emit represented in the permit application. The estimated emissions from the activities listed in Attachment A must be revalidated annually. This revalidation shall consist of the estimated emissions for each type of activity and the basis for that emission estimate.

Routine maintenance activities, as identified in Attachment B may be tracked through the work orders or equivalent. Emissions from activities identified in Attachment B shall be calculated using the number of work orders or equivalent that month and the emissions associated with that activity identified in the permit application.

Unless otherwise prescribed in this permit, the performance of each planned MSS activity not identified in Attachments A or B and the emissions associated with it shall be recorded and include at least the following information:

A. The physical location at which emissions from the MSS activity occurred, including the emission point number and common name for the point at which the emissions were released into the atmosphere;

B. The type of planned MSS activity and the reason for the planned activity;

C. The common name and the facility identification number, if applicable, of the facilities at which the MSS activity and emissions occurred;

D. The start date and time of the MSS activity and its duration;

E. The estimated quantity of each air contaminant, or mixture of air contaminants, emitted with the data and methods used to determine it. The emissions shall be estimated using the methods identified in the permit application, consistent with good engineering practice.

Emissions from all completed planned MSS activities shall be summed for each calendar month, and the rolling 12-month emissions shall be updated by the end of the next calendar month. **(6/10)**

20. Process units and facilities, with the exception of those identified in Special Condition Nos. 22, 23, 25, and Attachment A shall be depressurized, emptied, degassed, and placed in service in accordance with the following requirements.

A. Process equipment that contains material with a VOC shall be depressurized to a control device or a controlled recovery system prior to venting to atmosphere, degassing, or draining liquid.

B. If mixed phase materials must be removed from process equipment, the cleared material shall be routed to a knockout drum or equivalent to allow for managed initial phase separation. If the VOC partial pressure is greater than or equal to 0.50 psia at the normal process temperature and 95°F, any vents in the system shall be routed to a control device or a controlled recovery system. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. Control must remain in place until degassing has been completed or the system is no longer vented to atmosphere.

C. All liquids from process equipment or storage vessels must be removed to the maximum extent practical prior to opening equipment to commence degassing and/or maintenance. Liquids shall be drained into a closed vessel unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid must be covered or transferred to a covered vessel within one hour of being drained. After draining is complete, empty open pans may remain in use for housekeeping reasons to collect incidental drips.

D. If the VOC partial pressure is greater than or equal to 0.50 psia at the normal process temperature and 95°F, facilities shall be degassed using good engineering practice to ensure air contaminants are removed from the system through the control device or controlled recovery system to the extent allowed by process equipment or storage vessel design. The control device or recovery system utilized shall be recorded with the estimated emissions from controlled and uncontrolled degassing calculated using

the methods that were used to determine allowable emissions for the permit application.

(1) For MSS activities identified in Attachment B, the following option may be used in lieu of (2) below. The facilities being prepared for maintenance shall not be vented directly to atmosphere, except as necessary to verify an acceptable VOC concentration and establish isolation of the work area, until the VOC concentration has been verified to be less than 10 percent of the lower explosive limit (LEL) (or equivalent) per the site safety procedures.

(2) The locations and/or identifiers where the purge gas or steam enters the process equipment or storage vessel and the exit points for the exhaust gases shall be recorded. If the process equipment is purged with a gas, two system volumes of purge gas must have passed through the control device or controlled recovery system before the vent stream may be sampled to verify acceptable VOC concentration prior to uncontrolled venting. The VOC sampling and analysis shall be performed using an instrument meeting the requirements of Special Condition No. 21. The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged. The facilities shall be degassed until the VOC concentration is less than 10,000 ppmv.

E. Gases and vapors (including vapors from residual liquids) with a VOC partial pressure greater than or equal to 0.50 psia at 95°F may be vented directly to atmosphere if all the following criteria are met:

(1) It is not technically practicable to depressurize or degas, as applicable, into the process.

(2) There is not an available connection to a plant control system (flare).

(3) There is no more than 50 lb of air contaminants to be vented to atmosphere during shutdown or startup, as applicable.

All instances of venting directly to atmosphere per Paragraph E of this condition must be documented when occurring as part of any planned MSS activity. The emissions associated with venting without control must be included in the work order or equivalent for those MSS activities identified in Attachment B. **(6/10)**

21. Air contaminant concentration shall be measured using an instrument/detector meeting one set of requirements specified below.

A. VOC concentration shall be measured using an instrument meeting all the requirements specified in United States Environmental Protection Agency (EPA) Method 21 (40 CFR Part 60, Appendix A) with the following exceptions:

(1) The instrument shall be calibrated within 24 hours of use with a calibration gas such that the response factor of the VOC (or mixture of VOCs) to be monitored

shall be less than 2.0. The calibration gas and the gas to be measured, and its approximate response factor shall be recorded.

(2) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time of sampling shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, and the highest stable measured VOC concentration shall be recorded.

B. Colorimetric gas detector tubes may be used to determine air contaminant concentrations if they are used in accordance with the following requirements.

(1) The air contaminant concentration measured is less than 80 percent of the range of the tube. If the maximum range of the tube is greater than the release concentration defined in Paragraph B(3) of this condition, the concentration measured is at least 20 percent of the maximum range of the tube.

(2) The tube is used in accordance with the manufacturer's guidelines.

(3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:

measured contaminant concentration (ppmv) less than release concentration.

Where the release concentration is:

10,000 ppmv *(mole fraction of the total air contaminants present that can be detected by the tube).

The mole fraction may be estimated based on process knowledge. The release concentration and basis for its determination shall be recorded.

Records shall be maintained of the tube type, range, measured concentrations, and time the samples were taken.

C. Lower explosive limit (LEL) shall be measured with a lower explosive limit detector, with the following requirements.

(1) The detector shall be calibrated monthly with a certified pentane gas standard at 25 percent of the LEL for pentane. Records of the calibration date and time and the calibration result (pass/fail) shall be maintained.

(2) A daily functionality test shall be performed on each detector using the same certified gas standard used for calibration. The LEL detector shall read no lower than 90 percent of the calibration gas certified value. Records of the functionality test date and time and the test result (pass/fail) shall be maintained.

(3) A certified methane gas standard equivalent to 25 percent of the LEL for pentane may be used for calibration and functionality tests provided that the LEL response is within 95 percent of that for pentane. **(6/10)**

22. This permit authorizes emissions from storage tanks with an internal floating roof during planned floating roof landings. Tank floating roofs may only be landed for tank inspection/maintenance as identified in the permit application except when the VOC

vapors below the floating roof are routed to a control device or a controlled recovery system from the time the floating roof is landed until the floating roof is within 10 percent by volume of being refloated. Tank floating roof landings include all operations when the tank floating roof is on its supporting legs. These emissions are subject to the maximum allowable emission rates indicated on the MAERT. The following requirements apply to tank floating roof landings.

A. The tank liquid level shall be continuously lowered after the tank floating roof initially lands on its supporting legs until the tank has been drained to the maximum extent practicable without entering the tank. Liquid level may be maintained steady for a period of up to two hours if necessary to allow for valve lineups and pump changes necessary to drain the tank. This requirement does not apply where the VOC vapor under a floating roof is routed to a control device or a controlled recovery system during this process.

B. If the VOC partial pressure of the liquid previously stored in the tank is greater than 0.50 psia at 95°F, tank refilling or degassing of the vapor space under the landed floating roof must begin within 24 hours after the tank has been drained unless the vapor under the floating roof is routed to a control device or a controlled recovery system during this period. Floating roof tanks with liquid capacities less than 100,000 gallons may be degassed without control if the VOC partial pressure of the standing liquid in the tank has been reduced to less than 0.02 psia prior to ventilating the tank. Controlled degassing of the vapor space under landed roofs shall be completed as follows:

(1) Any gas or vapor removed from the vapor space under the floating roof must be routed to a control device or a controlled recovery system and controlled degassing must be maintained until the VOC concentration is less than 10,000 ppmv or 10 percent of the LEL. The locations and identifiers of vents other than permanent roof fittings and seals, control device or controlled recovery system, and controlled exhaust stream shall be recorded. There shall be no other gas/vapor flow out of the vapor space under the floating roof when degassing to the control device or controlled recovery system.

(2) The vapor space under the floating roof shall be vented using good engineering practice to ensure air contaminants are flushed out of the tank through the control device or controlled recovery system to the extent allowed by the storage tank design.

(3) A volume of purge gas equivalent to twice the volume of the vapor space under the floating roof shall be passed through the control device or into a controlled recovery system, before the vent stream may be sampled to verify acceptable VOC concentration. The measurement of purge gas volume shall not include any make-up air introduced into the control device or recovery system. The VOC sampling and analysis shall be performed as specified in Special Condition No. 21.

(4) The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged.

(5) Degassing must be performed every 24 hours unless there is no standing liquid in the tank or the VOC partial pressure of the remaining liquid in the tank is less than 0.15 psia.

C. The tank shall not be opened or ventilated without control, except as allowed by (1) or (2) below until one of the criteria in Paragraph D of this condition is satisfied.

(1) Minimize air circulation in the tank vapor space.

(a) One manway may be opened to allow access to the tank to remove or de-volatilize the remaining liquid. Other manways or access points may be opened as necessary to remove or de-volatilize the remaining liquid. Wind barriers shall be installed at all open manways and access points to minimize air flow through the tank.

(b) Access points shall be closed when not in use.

(2) Minimize time and VOC partial pressure.

(a) The VOC partial pressure of the liquid remaining in the tank shall not exceed 0.5 psia as documented by the method specified in Paragraph D(1).

(b) Blowers may be used to move air through the tank without emission control at a rate not to exceed 16,900 cfm for no more than 5 days. All standing liquids shall be removed from the tank during this period.

(c) Records shall be maintained of the blower circulation rate, the duration of uncontrolled ventilation, and the date and time all standing liquid was removed from the tank.

D. The tank shall not be opened except as necessary to prepare for degassing and cleaning, or ventilated without control, until either there is no standing liquid in the tank or the liquid in the tank has a VOC partial pressure less than 0.02 psia. These criteria may be demonstrated in any one of the following ways.

(1) Low VOC partial pressure liquid that is soluble with the liquid previously stored may be added to the tank to lower the VOC partial pressure of the liquid mixture remaining in the tank to less than 0.02 psia. This liquid shall be added during tank degassing if practicable. The estimated volume of liquid remaining in the drained tank and the volume and type of liquid added shall be recorded. The liquid VOC partial pressure may be estimated based on this information and engineering calculations.

(2) If water is added or sprayed into the tank to remove standing VOC liquid, one of the following must be demonstrated:

(a) Take a representative sample of the liquid remaining in the tank and verify no visible sheen using the static sheen test from 40 CFR 435 Subpart A Appendix 1.

(b) Take a representative sample of the liquid remaining in the tank and verify hexane soluble VOC concentration is less than 1000 ppmw using

EPA method 1664 (may also use 8260B or 5030 with 8015 from SW-846).

(c) Stop ventilation and close the tank for at least 24 hours. When the tank manway is opened after this period, verify VOC concentration is less than 1,000 ppmv through the procedure in Special Condition No. 21.

(3) No standing VOC liquid is verified through visual inspection.

The permit holder shall maintain records to document the method used to release the tank under Paragraph C of this condition.

E. Tanks shall be refilled as rapidly as practicable until the roof is off its legs.

F. The occurrence of each roof landing and the associated emissions shall be recorded and the rolling 12-month tank roof landing emissions shall be updated on a monthly basis. These records shall include at least the following information:

(1) the identification of the tank and emission point number, and any control devices or recovery systems used to reduce emissions;

(2) the reason for the tank floating roof landing;

(3) for the purpose of estimating emissions, the date, time, and other information specified for each of the following events:

(a) the floating roof was initially landed;

(b) all liquid was pumped from the tank to the extent practical;

(c) start and completion of controlled degassing, and total volumetric flow;

(d) all standing liquid was removed from the tank or any transfers of low VOC partial pressure liquid to or from the tank including volumes and vapor pressures to reduce tank liquid VOC partial pressure to <0.02 psi;

(e) if there is liquid in the tank, VOC partial pressure of liquid, start and completion of uncontrolled degassing, and total volumetric flow;

(f) refilling commenced, liquid filling the tank, and the volume necessary to float the roof; and

(g) tank floating roof off supporting legs, floating on liquid.

(4) the estimated quantity of each air contaminant, or mixture of air contaminants, emitted between events (c) and (g) with the data and methods used to determine it. The emissions associated with roof landing activities shall be calculated using the methods described in Section 7.1.3.2 of AP-42 "Compilation of Air Pollution Emission Factors, Chapter 7 - Storage of Organic Liquids" dated November 2006 and the permit application. **(6/10)**

23. Fixed-roof tanks shall not be ventilated without control, until either all standing liquid has been removed from the tank or the liquid in the tank has a VOC partial pressure less than 0.02 psia. This shall be verified and documented through one of the criteria identified in Special Condition No. 22.C. Fixed roof tank manways may be opened without emission controls when there is standing liquid with a VOC partial pressure greater than 0.02 psi

vapor as necessary to set up for degassing and cleaning. One manway may be opened to allow access to the tank to remove, or to lower the VOC partial pressure of, the remaining liquid. The emission control system shall meet the requirements of Special Condition Nos. 22.B(1) through 22.B(5) and records maintained per Special Condition No. 22.F(3)(c) through 22F(3)(e), and the estimated quantity in Special Condition No. 22F(4). Low vapor pressure liquid may be added to and removed from the tank as necessary to lower the VOC partial pressure of the liquid mixture remaining in the tank to less than 0.02 psia. **(6/10)**

24. The following requirements apply to vacuum and air mover truck operations to support planned MSS at this site:

    A. Vacuum pumps and blowers shall not be operated on trucks containing or while collecting liquids with VOC partial pressure greater than 0.50 psia at 95°F unless the vacuum/blower exhaust is routed to a control device or a controlled recovery system.

    B. Equip fill line intake with a "duckbill" or equivalent attachment if the hose end cannot be submerged in the liquid being collected.

    C. A daily record containing the information identified below is required for each air mover truck in operation at the site each day.

        (1) Prior to initial use, identify any liquid in the air mover truck. Record the liquid level and document that the VOC partial pressure is less than 0.50 psia at 95°F if the vacuum/blower exhaust is not routed to a control device or a controlled recovery system. After each liquid collection, identify the liquid collected and document that the VOC partial pressure is less than 0.50 at 95°F if the vacuum/blower exhaust is not routed to a control device or a controlled recovery system.

        (2) For each liquid collection made with the vacuum/blower operating, record the duration of any periods when air may have been entrained with the liquid collection. The reason for operating in this manner and whether a "duckbill" or equivalent was used shall be recorded. Short, incidental periods, such as those necessary to walk from the truck to the fill line intake, do not need to be documented.

        (3) If the air mover truck vacuum/blower exhaust is controlled with a control device other than an engine or oxidizer, record the VOC exhaust concentration upon commencing each collection, at the end of each collection, and at least every hour during each collection, measured using an instrument meeting the requirements of Special Condition No. 21.

        (4) The volume in the air mover truck at the end of the day, or the volume unloaded, as applicable.

    D. The permit holder shall determine the air mover truck emissions each month using the daily air mover truck records and the calculation methods utilized in the permit application. If records of the volume of liquid collected for each pick-up are not maintained, the emissions shall be determined using the physical properties of the liquid collected with the greatest potential emissions. Rolling 12 month air mover truck emissions shall also be determined on a monthly basis.

E. If the VOC partial pressure of all the liquids collected into the truck is less than 0.10 psia, this shall be recorded when the truck is unloaded or leaves the plant site and the emissions may be estimated as the maximum potential to emit for a truck in that service as documented in the permit application. The recordkeeping requirements in Paragraphs C and D of this condition do not apply. **(6/10)**

25. The following requirements apply to frac, or temporary, tanks and vessels used in support of MSS activities.

A. The exterior surfaces of these tanks/vessels that are exposed to the sun shall be white or aluminum effective May 1, 2013 except for label, logos, etc., not to exceed 15 percent of the exterior surface area. This requirement does not apply to tanks/vessels that only vent to atmosphere when being filled.

B. These tanks/vessels must be covered and equipped with fill pipes that discharge within 6 inches of the tank/vessel bottom.

C. These requirements do not apply to vessels storing less than 100 gallons of liquid that are closed such that the vessel does not vent to atmosphere.

D. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all frac tanks during the previous calendar month and the past consecutive 12 month period. The record shall include tank identification number, dates put into and removed from service, control method used, tank capacity and volume of liquid stored in gallons, name of the material stored, VOC molecular weight, and VOC partial pressure at the estimated monthly average material temperature in psia. Filling emissions for tanks shall be calculated using the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Loading Operations" and standing emissions determined using: the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Storage Tanks."

E. If the tank/vessel is used to store liquid with VOC partial pressure less than 0.10 psia, records may be limited to the days the tank is in service and the liquid stored. Emissions may be estimated based upon the potential to emit as identified in the permit application. **(6/10)**

26. The MSS activities represented in the permit application may be authorized under permit by rule only if the procedures, emission controls, monitoring, and recordkeeping are the same as those required by this permit. **(6/10)**

27. All permanent facilities must comply with all operating requirements, limits and representations in the permits identified in Attachment D during planned startup and shutdown unless alternate limits are identified in this permit. Alternate requirements for emissions from routine emission points are identified below.

A. Combustion units with the exception of flares, at this site are exempt from NO_x, and CO operating limits identified in the special condition in this and other NSR permits during planned startup and shutdown if the following criteria are satisfied.

(1) The maximum allowable emission rates in the permit authorizing the facility are not exceeded.

(2) The startup period does not exceed 8 hours in duration and the firing rate does not exceed 75 percent of the design firing rate. The time it takes to complete the shutdown does not exceed 4 hours. **(6/10)**

28. Control devices required by this permit for emissions from planned MSS activities are limited to those types identified in this condition. Control devices shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. Each device used shall meet all the requirements identified for that type of control device.

Controlled recovery systems identified in this permit shall be directed to an operating process or to a collection system that is vented through a control device meeting the requirements of this permit condition.

A. Carbon Adsorption System (CAS)

(1) The CAS shall consist of 2 carbon canisters in series with adequate carbon supply for the emission control operation.

(2) The CAS shall be sampled downstream of the first can and the concentration recorded at least once every hour of CAS run time to determine breakthrough of the VOC. The sampling frequency may be extended to up to 30 percent of the minimum potential saturation time for a new can of carbon. The permit holder shall maintain records including the calculations performed to determine the minimum saturation time.

The permit holder may elect to extend the carbon sampling frequency to longer periods based on previous experience with carbon control of a MSS waste gas stream. The past experience must be with the same VOC, type of facility, and MSS activity. The basis for the sampling frequency shall be recorded. If the VOC concentration on the initial sample downstream of the first carbon canister following a new polishing canister being put in place is greater than 100 ppmv above background, it shall be assumed that breakthrough occurred while that canister functioned as the final polishing canister and a permit deviation shall be recorded.

(3) The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition No. 21.

(4) Breakthrough is defined as the highest stable measured VOC concentration at or exceeding 100 ppmv above background. When the condition of breakthrough of VOC from the initial saturation canister occurs, the waste gas flow shall be switched to the second canister and a fresh canister shall be placed as the new final polishing canister within four hours.

(5) Records of CAS monitoring shall include the following:

(a) Sample time and date.

(b) Monitoring results (ppmv).

(c) Canister replacement log.

(6) Single canister systems are allowed if the time the carbon canister is in service is limited to no more than 30 percent of the minimum potential saturation time. The permit holder shall maintain records for these systems, including the calculations performed to determine the saturation time. The time limit on carbon canister service shall be recorded and the expiration date attached to the carbon can.

B. Thermal Oxidizer

(1) The thermal oxidizer firebox exit temperature shall be maintained at not less than 1,400°F and waste gas flows shall be limited to assure at least a 0.5 second residence time in the fire box while waste gas is being fed into the oxidizer.

The thermal oxidizer exhaust temperature shall be continuously monitored and recorded when waste gas is directed to the oxidizer. The temperature measurements shall be made at intervals of six minutes or less and recorded at that frequency.

The temperature measurement device shall be installed, calibrated, and maintained according to accepted practice or the manufacturer's specifications. The device shall have an accuracy of the greater of ±0.75 percent of the temperature being measured expressed in degrees Celsius or ±2.5°C.

(2) As an alternative to Paragraph B(1) of this condition, alternate minimum operating temperature and residence time may be established through performance testing by demonstrating a destruction efficiency of at least 99 percent under conditions similar to those at which the control device will be operated. Stack testing must have been performed within the last 12 months. Stack VOC concentrations and flow rates shall be measured in accordance with applicable EPA Reference Methods. A copy of the test report shall be maintained with the thermal oxidizer and a summary of the testing results shall be included with the emission calculations.

(3) As an alternative to Paragraphs B(1) and B(2) of this condition, adequate destruction of VOC may be demonstrated by an exhaust concentration no greater than 20 ppmv, as measured by a continuous VOC monitor. The VOC monitor shall be calibrated and maintained in accordance with Special Condition No.21, except for 21C.

C. Internal Combustion Engine

(1) The internal combustion engine shall have a VOC destruction efficiency of at least 99 percent.

(2) The engine must have been stack tested with propane or butane to confirm the required destruction efficiency within the past 12 months. VOC shall be measured in accordance with the applicable EPA Reference Method during the stack test and the exhaust flow rate may be determined from measured fuel flow rate and measured oxygen concentration. A copy of the stack test report

shall be maintained with the engine. There shall also be documentation of acceptable VOC emissions following each occurrence of engine maintenance which may reasonably be expected to increase emissions including oxygen sensor replacement and catalyst cleaning or replacement. Stain tube indicators specifically designed to measure VOC concentration shall be acceptable for this documentation, provided a hot air probe or equivalent device is used to prevent error due to high stack temperature, and three sets of concentration measurements are made and averaged. Portable VOC analyzers meeting the requirements of Special Condition No. 21 are also acceptable for this documentation.

(3) The engine shall be operated with an oxygen sensor-based air-to-fuel ratio (AFR) controller. Documentation for each AFR controller that the, manufacturer's, or supplier's recommended maintenance has been performed, including replacement of the oxygen sensor as necessary for oxygen sensor-based controllers shall be maintained with the engine. The oxygen sensor shall be replaced at least quarterly in the absence of a specific written recommendation.

(4) As an alternative to Paragraphs C(1) through C(3) of this condition, adequate destruction of VOC may be demonstrated by an exhaust concentration no greater than 20 ppmv, as measured by a continuous VOC monitor. The VOC monitor shall be calibrated and maintained in accordance with Special Condition No. 21, except for 21C.

D. Temporary Flare System

(1) The heating value and velocity requirements in 40 CFR § 60.18 shall be satisfied during operations authorized by this permit.

(2) The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications or equivalent.

(3) Compliance with the heating value requirements of 40 CFR § 60.18 shall be ensured by adding supplemental fuel gas to the waste gas stream as necessary. The net heating value of the waste gas stream routed to the flare may be determined by direct measurement or engineering calculations. Records of the determination of the heating value of the waste gas routed to the flare and the amount of any supplemental fuel added to the waste gas, shall be kept.

E. A liquid scrubbing system may be used upstream of carbon adsorption. A single carbon can or a liquid scrubbing system may be used as the sole control device if the requirements below are satisfied.

(1) The exhaust to atmosphere shall be monitored continuously and the VOC concentration recorded at least once every 15 minutes when waste gas is directed to the scrubber.

(2) The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition No. 21.

(3) An alarm shall be installed such that an operator is alerted when outlet VOC concentration exceeds 100 ppmv above background. The MSS activity shall be stopped as soon as possible when the VOC concentration exceeds 100 ppmv above background for more than one minute. The date and time of all alarms and the actions taken shall be recorded.

F. Closed Loop Refrigerated Vapor Recovery System.

(1) The vapor recovery system shall be installed on the facility to be degassed using good engineering practice to ensure air contaminants are flushed from the facility through the refrigerated vapor condensers and back to the facility being degassed. The vapor recovery system and facility being degassed shall be enclosed except as necessary to ensure structural integrity (such as roof vents on a floating roof tank).

(2) VOC concentration in vapor being circulated by the system shall be sampled and recorded at least once every 4 hours at the inlet of the condenser unit with an instrument meeting the requirements of Special Condition No. 21.

(3) The quantity of liquid recovered from the tank vapors and the tank pressure shall be monitored and recorded each hour. The liquid recovered shall increase with each reading and the tank pressure shall not exceed one inch water pressure while the system is operating. **(6/10)**

29. Planned MSS activities must be conducted in a manner consistent with good practice for minimizing emissions, including the use of air pollution control equipment, practices, and processes. All reasonable and practical efforts to comply with Special Condition Nos. 1, and 19 through 28 must be used when conducting the planned MSS activity, until the commission determines that the efforts are unreasonable or impractical, or that the activity is an unplanned MSS activity. **(6/10)**

30. With the exception of the MAERT emission limits, Special Condition Nos. 19 through 29 become effective 180 days after this permit has been issued. During this period, monitoring and recordkeeping of planned MSS activities shall satisfy the requirements of Special Condition No. 19. Emissions shall be estimated using good engineering practice and methods to provide reasonably accurate representations for emissions. The basis used for determining the quantity of air contaminants to be emitted shall be recorded. **(6/10)**

31. The requirements of Special Condition No. 13 Paragraph F, to conduct a weekly check of the reading of the pressure-sensing device to verify disc integrity and to record each weekly check in the unit log or equivalent becomes effective 180 days after the permit amendment received by the TCEQ January 3, 2008, is approved. **(6/10)**

32. Special Condition No. 15 becomes effective 180 days after the permit amendment received by the TCEQ January 3, 2008, is approved. **(6/10)**

TABLE 1
Permit Numbers 6860 and PSDTX1464

Exempt Relief Valves List

PSV 115	PSV 215
PSV 117	PSV 217
PSV 118	PSV 218
PSV 119	PSV 219
PSV 137	PSV 237
PSV 141	PSV 241
PSV 146	PSV 246
PSV 147	PSV 247
PSV 148	PSV 248
PSV 153	PSV 253
PSV 158	PSV 258
PSV 159	PSV 259
PSV 160	PSV 260
PSV 161	PSV 261
PSV 162	PSV 262
PSV 130	PSV 230
PSV 131	PSV 231
PSV 132	PSV 232
PSV 133	PSV 233

PSV 134	PSV 234
PSV 135	PSV 235
PSV 136	PSV 236
PSV 138	PSV 238
PSV 139	PSV 239
PSV 140	PSV 240
PSV 167	PSV 267

Dated June 7, 2010

ATTACHMENT A

Permit Numbers 6860 and PSDTX1464

Inherently Low Emitting Activities

	Emissions				
Activity	VOC	NO_x	CO	PM_{10}	SO_2
Aerosol Cans	X				
Baghouse/Filter Maintenance/Entry				X	
Cyclone Inspection/Maintenance				X	
Fiber Drum Crushing				X	
Jet Cleaner	X	X	X	X	X
Lap Tables	X				
Plant Oil Changes	X				
Inspection, repair, replacement, adjustment, testing, proving and calibration of instrumentation/analytical equipment	X				
Inspection, repair, replacement, cleaning of miscellaneous equipment (e.g., sight glasses, filters, screens, lube oil systems)	X				
Maintenance on water treatment systems (cooling, boiler, potable)	X				
Management of sludge from pits, ponds, sumps and water conveyances	X				
Use of soap and other aqueous based cleaners	X				

Dated June 7, 2010

ATTACHMENT B

Permit Numbers 6860 and PSDTX1464

Routine Maintenance Activities

Planned maintenance, startup, and shutdown activities where the isolated system volume is less than 500 cubic feet. These include activities such as:

Pump repair/replacement/cleaning/inspection

Compressor repair/replacement/cleaning/inspection

Heat exchanger repair/replacement/cleaning/inspection

Vessel repair/replacement/cleaning/inspection

Furnace repair/replacement/cleaning/inspection

Boiler repair/replacement/cleaning/inspection

Dated June 7, 2010

Attachment C

Permit Numbers 6860 and PSDTX1464

MSS Activity Summary

Facilities or Source Category	Description	Emissions Activity	EPN
High Pressure Polyethylene Process Lines	Degas process line to 10,000 ppmv of VOC	Vapors routed to Flare or Portable Control Device (per SC 28)	701
High Pressure Reactor Blowdowns and nitrogen purging of lines between product changes	Blowdown and Nitrogen Purges to Flare System	Vapors routed to the Flare System	701
Ethylene Recovery Unit (ERU) Maintenance	ERU Outages	Vapors routed to the Flare System	701
Low Pressure Polyethylene Process Lines	Degas process line to 10,000 ppmv of VOC	Vapors routed to Flare or Portable Control Device (per SC 28)	721
Catalyst Manufacturing Facilities	Degas process line to 10,000 ppmv of VOC	Vapors routed to Flare or Portable Control Device (per SC 28)	721

Facilities or Source Category	Description	Emissions Activity	EPN
High Pressure Polyethylene Process Lines, Low Pressure Polyethylene Process Lines and Catalyst Manufacturing Facilities	Vacuum residual liquid from process line equipment using Air Mover Truck	Emissions to atmosphere	MSS
High Pressure Polyethylene Process Lines, Low Pressure Polyethylene Process Lines and Catalyst Manufacturing Facilities	Open process line equipment for planned maintenance after degassing to 10,000 ppmv of VOC or vapor pressure of VOC is 0.5 psia or less	Emissions to atmosphere	MSS
Floating Roof Storage Tanks	Removal of residual liquid from storage tank	Residual liquid routed to truck or railcar. Vapors from truck or railcar routed to flare or Portable Control Device (per SC 28)	721
Floating Roof Storage Tanks	Degas tank to 10,000 ppmv of VOC	Vapors routed through truck or railcar to flare or Portable Control Device (per SC 28)	721

Facilities or Source Category	Description	Emissions Activity	EPN
Floating Roof Storage Tanks	Open storage tank after degassing to 10,000 ppmv	Emissions to atmosphere	MSS
Pressurized Tanks	Removal of residual liquid from tank	Residual liquid routed to truck or railcar. Vapors from truck or railcar routed to flare or Portable Control Device (per SC 28)	701
Pressurized Tanks	Degas tank to 10,000 ppmv of VOC	Vapors routed through truck or railcar to flare	701
Pressurized Tanks	Open storage tank after degassing to 10,000 ppmv	Emissions to atmosphere	MSS
Fixed Roofs Tank	Transfer liquid from tanks into tank truck, railcar or equivalent temporary container or vessel	Emissions to atmosphere	MSS
Fixed Roofs Tank	Degas storage tank with VOC vapor pressure of 0.5 psia or greater to 10,000 ppmv of VOC	Vapors routed to flare or Portable Control Device (per SC 28)	701

Facilities or Source Category	Description	Emissions Activity	EPN
Fixed Roof Tanks	Open tank with VOC vapor pressure less than 0.05 psia or open storage tank with VOC vapor pressure of 0.5 psia or greater after degassing to 10,000 ppmv	Emissions to atmosphere	MSS
All storage tanks	Tank cleaning, inspection, and maintenance	Emissions to atmosphere	MSS
All storage tanks	Refill clean tank	Emissions to atmosphere	MSS
All process units and tanks	Store liquid in tank truck, railcar or equivalent temporary container or vessels (e.g., Frac Tanks)	Emissions to atmosphere	MSS
See Attachment A	Miscellaneous low emitting activities	Emissions to atmosphere	MSS
See Attachment B	Routine maintenance activities	Emissions to atmosphere	MSS

ATTACHMENT D

Permit Numbers 6860 and PSDTX1464

Permit Emission Points by Source Category

This permit authorizes emissions from the following temporary facilities used to support planned maintenance, startup, and shutdown (MSS) activities at permanent site facilities: tank trucks, railcars, and air mover trucks. Emissions from temporary facilities are authorized provided the temporary facility (a) does not remain on the plant site for more than 12 consecutive months, (b) is used solely to support planned MSS activities at the permanent site facilities listed in this Attachment, and (c) does not operate as a replacement for an existing authorized facility.

This permit authorizes MSS emissions from the permanent site facilities identified below. The headings for each group of facilities (Process Units, Tanks, etc) are used in the MSS Activity Summary (Attachment B) to identify all facilities in the respective group.

HIGH-PRESSURE POLYETHYLENE PROCESS LINES		
FIN	Description	New Source Review Authorization
100	High Pressure Polyethylene Line No. 1	Permit No. 6860
200	High Pressure Polyethylene Line No. 2	Permit No. 6860
300	High Pressure Polyethylene Line No. 3	Permit No. 6860
	High Pressure Compounding Area	Permit No. 6860

LOW-PRESSURE POLYETHYLENE PROCESS LINES		
FIN	Description	New Source Review Authorization
400	Low Pressure Polyethylene Line No. 4	Permit No. 8758
500	Low Pressure Polyethylene Line No. 5	Permit No. 8758
600	Low Pressure Polyethylene Line No. 6	Permit No. 8758
	Low Pressure Finishing Area	Permit No. 8758
	Catalyst Manufacturing Facilities	Permit No. 8758

FLOATING ROOF STORAGE TANKS		
FIN	Description	New Source Review Authorization
863	Hexene Storage	Permit No. 8758

PRESSURIZED STORAGE TANKS		
FIN	Description	New Source Review Authorization
612-D646	Propylene Storage	Permit No. 6860
612-D647-1	Peroxide/OMS Storage	Permit No. 6860
612-D647-2	Peroxide/OMS Storage	Permit No. 6860
612-D652	Propionaldehyde Storage	Permit No. 6860
612-D670	Methanol Storage	Permit No. 6860
612-D4704	Butene Storage	Permit No. 6860
612-D4705	Vinyl Acetate Storage	Permit No. 6860
612-D4706	Isopentane Storage	Permit No. 6860
612-D4718	25% TEAL Storage	Permit No. 6860
612-D4723	Tetrahydrofuran Storage	Permit No. 6860
612-D4725	11% TMA/Hexane Storage	Permit No. 6860
612-D4749	Butene Storage	Permit No. 6860
612-D4752	Neat TEAL Storage	Permit No. 8758
612-D4754	TMA / Isopentane Storage	Permit No. 8758
612-D4758	Isopentane Storage	Permit No. 8758

FIXED-ROOF STORAGE TANKS		
FIN	Description	New Source Review Authorization
612-D645	Peroxide/OMS Tank	Permit No. 6860

FIXED-ROOF STORAGE TANKS		
FIN	Description	New Source Review Authorization
612-D716	Diesel	Permit No. 6860
612-D716A	Diesel	Permit No. 6860
612-F102	Plunger Coolant Storage	Permit No. 6860
612-F108	Witco Oil Storage	Permit No. 6860
612-F109	Frame Oil Storage	Permit No. 6860
612-F670	OMS Storage	Permit No. 6860
612-F706	Slop Oil Storage	Permit No. 6860
612-F713	Alternate Fuels Storage	Permit No. 6860
612-F714	Alternate Fuels Storage	Permit No. 6860
612-F802	Diesel Storage	Permit No. 6860
612-F4706	Diesel Storage	Permit No. 8758
612-F5959	TNPP Storage	Permit No. 8758
612-F6640A	Mineral Oil Storage	Permit No. 8758
612-F6640B	20% Peroxide /OMS Storage	Permit No. 8758

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 6860 and PSDTX1464

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY(4)
101A	Primary Compressor Vent	VOC	0.10	0.44
101B	Primary Compressor Vent	VOC	0.10	0.44
101C	Primary Compressor Vent	VOC	0.10	0.44
101D	Primary Compressor Vent	VOC	0.10	0.44
101E	Primary Compressor Vent	VOC	0.10	0.44
101F	Primary Compressor Vent	VOC	0.10	0.44
102	Hyper Compressor Vent	VOC	0.50	2.20
104	Spin Dryer	VOC	(6)	(6)
		PM_{10}	(7)	(7)
		$PM_{2.5}$	(7)	(7)
201A	Primary Compressor Vent	VOC	0.10	0.44
201B	Primary Compressor Vent	VOC	0.10	0.44
201C	Primary Compressor Vent	VOC	0.10	0.44

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY(4)
201D	Primary Compressor Vent	VOC	0.10	0.44
201E	Primary Compressor Vent	VOC	0.10	0.44
201F	Primary Compressor Vent	VOC	0.10	0.44
202	Hyper Compressor Vent	VOC	0.50	2.20
204	Spin Dryer	VOC	(6)	(6)
		PM_{10}	(7)	(7)
		$PM_{2.5}$	(7)	(7)
300A	Primary Compressor Vent	VOC	0.11	0.47
300B	Primary Compressor Vent	VOC	0.11	0.47
300C	Primary Compressor Vent	VOC	0.11	0.47
300D	Primary Compressor Vent	VOC	0.11	0.47
300E	Primary Compressor Vent	VOC	0.11	0.47
300F	Primary Compressor Vent	VOC	0.11	0.47
301	Hyper Compressor Vent	VOC	0.50	2.20
307	Spin Dryer	VOC	(6)	(6)
		PM_{10}	0.34	1.03
		$PM_{2.5}$	0.34	1.03

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY(4)
502	MSR Heater B-502	VOC	0.01	0.01
		CO	0.02	0.09
		NO_x	0.02	0.11
		SO_2	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
601	Dust Collector	PM_{10}	0.14	0.60
		$PM_{2.5}$	0.14	0.60
602A, 603A	Hopper Vents (8)	PM_{10}	0.29	0.64
		$PM_{2.5}$	0.29	0.64
602B	Hopper Vent	PM_{10}	0.08	0.34
		$PM_{2.5}$	0.08	0.34
603B	Hopper Vent	PM_{10}	0.08	0.34
		$PM_{2.5}$	0.08	0.34
604	Line 1 Blend Silo Dust Collector	VOC	(6)	(6)
		PM_{10}	1.08	4.75
		$PM_{2.5}$	1.08	4.75
605	Line 2 Blend Silo Dust Collector	VOC	(6)	(6)
		PM_{10}	1.08	4.75
		$PM_{2.5}$	1.08	4.75
606	Cyclone	VOC	(6)	(6)
		PM_{10}	0.17	0.75

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY(4)
		$PM_{2.5}$	0.17	0.75
607	Cyclone	VOC	(6)	(6)
		PM_{10}	0.17	0.75
		$PM_{2.5}$	0.17	0.75
608	Cyclone	VOC	(6)	(6)
		PM_{10}	0.51	2.25
		$PM_{2.5}$	0.51	2.25
609	Cyclone	VOC	(6)	(6)
		PM_{10}	0.51	2.25
		$PM_{2.5}$	0.51	2.25
612-D645	Slop Tank	VOC	0.05	0.01
612-D716	Diesel Tank	VOC	1.10	0.01
612-D716A	Diesel Tank	VOC	1.10	0.01
612-F102	Coolant Tank	VOC	0.03	0.01
612-F108	Oil Tank	VOC	0.03	0.01
612-F109	Oil Tank	VOC	0.03	0.01
612-F670	OMS Tank	VOC	0.64	0.01
612-F706	Oil Tank	VOC	15.00	3.03
612-F801	Gasoline Tank	VOC	5.20	0.82
612-F802	Diesel Tank	VOC	0.01	0.01
615A	Sample Receiver	VOC	(6)	(6)
		PM_{10}	0.03	0.12

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY(4)
		$PM_{2.5}$	0.03	0.12
615B	Sample Receiver	VOC	(6)	(6)
		PM_{10}	0.03	0.12
		$PM_{2.5}$	0.03	0.12
615C	Sample Receiver	VOC	(6)	(6)
		PM_{10}	0.03	0.12
		$PM_{2.5}$	0.03	0.12
616A, 617A, 625A	Hopper Vent (9)	PM_{10}	1.00	3.50
		$PM_{2.5}$	1.00	3.50
616B	Hopper Vent	PM_{10}	0.08	0.34
		$PM_{2.5}$	0.08	0.34
617B	Hopper Vent	PM_{10}	0.08	0.34
		$PM_{2.5}$	0.08	0.34
618	Transfer Cyclone	VOC	97.91	271.36
		PM_{10}	2.73	11.98
		$PM_{2.5}$	2.73	11.98
619	Sample Cyclone Vent	VOC	(6)	(6)
		PM_{10}	0.04	0.18
		$PM_{2.5}$	0.04	0.18
620	Flotriator Cyclone	VOC	(6)	(6)
		PM_{10}	0.88	3.87
		$PM_{2.5}$	0.88	3.87

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY(4)
621	Scalperator Cyclone	VOC	(6)	(6)
		PM_{10}	0.77	3.38
		$PM_{2.5}$	0.77	3.38
625B	Line 3 Rerun Vacuum Hopper	PM_{10}	0.01	0.02
		$PM_{2.5}$	0.01	0.02
626A and 626C	Line 3 Masterbatch Hopper (10)	PM_{10}	0.47	1.03
		$PM_{2.5}$	0.47	1.03
626B	Line 3 Masterbatch Hopper	PM_{10}	0.01	0.02
		$PM_{2.5}$	0.01	0.02
627	Line 3 Blend Silos	VOC	(6)	(6)
		PM_{10}	0.44	0.23
		$PM_{2.5}$	0.44	0.23
628	Line 3 Blend Silos	VOC	(6)	(6)
		PM_{10}	0.44	0.23
		$PM_{2.5}$	0.44	0.23
631	Lines 1, 2, and 3 Rerun Filter Receiver	PM_{10}	0.16	0.71
		$PM_{2.5}$	0.16	0.71
632	MB and Rerun Cyclone Dust Collector	PM_{10}	0.23	1.02
		$PM_{2.5}$	0.23	1.02
701	Flare	VOC	392.49	52.34
		CO	477.61	155.00
		NO_x	114.44	26.40

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY(4)
		SO_2	0.11	0.37
702	Boiler B-701	VOC	0.71	
		CO	3.13	
		NO_x	3.73	
		SO_2	0.02	
		PM_{10}	0.28	
		$PM_{2.5}$	0.28	
703	Boiler B-701A	VOC	0.71	
		CO	3.13	
		NO_x	3.73	
		SO_2	0.02	
		PM_{10}	0.28	
		$PM_{2.5}$	0.28	
704	Boiler B-701B	VOC	0.71	
		CO	3.13	
		NO_x	3.73	
		SO_2	0.02	
		PM_{10}	0.28	
		$PM_{2.5}$	0.28	
702, 703, and 704	Boilers B-701, B-701A, and B-701B (11)	VOC		4.31
		CO		30.84
		NO_x		36.71

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY(4)
		SO_2		0.22
		PM_{10}		2.79
		$PM_{2.5}$		2.79
714	Wastewater Area Fugitives (5)	VOC	0.01	0.01
985, 986, 987, and 990	Degreasers (12)	VOC	0.84	0.80
HPFUGEM	High Pressure Unit Fugitives (5)	VOC	15.85	69.41
MSS	See Attachment C	VOC	279.34	4.97
		CO	0.83	0.01
		NO_x	0.98	0.01
		SO_2	0.01	0.01
		PM_{10}	0.19	0.50
		$PM_{2.5}$	0.19	0.50

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(1) Emission point identification - either specific equipment designation or emission point number (EPN) from a plot plan.
(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
CO - carbon monoxide
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM_{10} - particulate matter equal to or less than 10 microns in diameter
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
(6) Total residual VOC emissions from EPNs 104, 204, 307, 604, 605, 606, 607, 608, 609, 615A, 615B, 615C, 618, 619, 620, 621, 627, and 628 are listed under EPN 618.
(7) Total spin dryer particulate emissions from EPNs 104, 204, and 307 are listed under EPN 307.
(8) Total emissions for EPNs 602A and 603A.
(9) Total emissions for EPNs 616A, 617A, and 625A.
(10) Total emissions for EPNs 626A and 626C.
(11) Total emissions for EPNs 702, 703, and 704.
(12) Total emissions for EPNs 985, 986, 987, and 990.

Dated April 20, 2016